CONSTRUCTION NEWS

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RAILWAYS.

ALLIANCE & AKRON SHORT LINE.—The B. & M. ENGINEERING & CONSTRUCTION CO., Cleveland, Ohio, has been awarded contract to build this railway, which will run from Alliance, Ohio, northwest via Marlboro, New Baltimore, Congress Lake, Logtown and Magadore to Akron, about 26 miles. Construction work will be started soon. Sub-contracts probably will be let. Charles S. Kieth is Pres., Alliance; L. C. Marble, Ch. Engr., 1005 Schofield Bldg., Cleveland.

BALTIMORE & OHIO.—According to the Cincinnati "Commercial Tribune," at a recent conference held by the operating officials of the Baltimore & Ohio and the Baltimore & Ohio Southwestern lines, "it was agreed to spend $200,000 in double-tracking the Baltimore & Ohio Southwestern R. R. between Cozaddale, Ohio, and Midland City, Ohio, 14 miles." It is understood that surveys are to be made at once and that work on this improvement is to be begun by the company this summer. C. C. F. Bent is Gen. Mgr., Cincinnati, Ohio.

BANGOR & AROOSTOOK.—The Railroad Commissioners of Maine have received a petition from the Bangor & Aroostook R. R. Co., asking for the approval of the location of a new branch which it proposes to build in the immediate future through the towns of Grand Isle, Madawaska, Frenchville and Fort Kent. M. Burpee is Ch. Engr., Houlton, Me.

BOSTON & ALBANY.—Announcement is made that the proceeds of the $2,000,000 of bonds which this company has asked permission to issue are to be used for improvements already finished or to be completed during 1910, as follows: Grand Junction R. R., third-tracking and additional main tracks, $168,000; East Cambridge, Mass., developing delivery yard, $50,000; Chelsea, new freight house, $6,500; Worcester, elimination of grade crossing and new passenger station, $400,000; four-tracking layout, South Worcester, $315,000; signals and interlocking, $331,000; bridge renewals, $250,000; third-tracking and additional main tracks connecting third track between East Greenbush, N. Y., and Rensselaer, $125,000; passing tracks and sidings at West Brookfield, Mass., Westfield, Washington, Canaan, N. Y., State Line, Mass., and East Chatham, N. Y., $49,000; engine facilities at Beacon Park, Mass., West Springfield, North Adams Junction, Hudson, N. Y., and North Adams, $43,200; enlarging team delivery yard at Natick, Mass., $5,000; team and coach yard at South Framingham, $35,000; 60-car yard at Westfield, $10,000; widening track centers and additional two-track tunnel for eastbound main tracks at State Line, $150,000, and buildings at West Springfield, Becket and Westboro, $34,000. The balance is to be expended for miscellaneous permanent improvements. F. B. Freeman is Ch. Engr., Boston. Noted on May 5.

BRINSON RY.—Charter has been granted to this company in Georgia, with headquarters at Savannah, Ga., an $1,500,000 capital stock. This corporation has taken over the railroad properties of the Savannah Valley R. R. Co. and will build from Savannah to Athens, Ga., the road passing through the counties of Chatham, Effingham, Screven, Burke, Richmond, Jefferson, McDuffie, Warren, Wilkes, Oglethorpe and Clarke. The incorporators are: George M. Brinson, Y. E. Bargeron, W. C. Myers and John E. Foy, of Savannah; James Imbrie, of New York; J. T. Walker, E. T. Comer and W. J. Walker, of Screven County; Robert M. Hitch and R. L. Denmark, of Savannah. The Brinson Ry. Co. at present operates a line from Savannah to Mill Haven, 72 miles. Geo. M. Brinson is Pres. and Supt., Springfield, Ga.

BUTTE & PLUMAS.—Incorporated in California to build a standard-gage line from Oroville to Stanwood, Cal., through the holdings of the Truckee Lumber Co., which extend into Plumas County. The first section of the road will be about 30 miles long and will connect with the logging roads branching out through the forests at convenient points. It will connect in Oroville with the Southern Pacific. The capital stock of the company is $500,000, of which $30,000 has been paid in. The articles of incorporation state that the board of directors is made up of O. C. Haslett, of Alameda; E. S. Dunbar, of Oroville; and J. L. Smith, of Oroville.

CANADIAN PACIFIC.—Harry P. Dill, U. S. Consul at Orillia, Ont., announces the immediate construction by the Canadian Pacific Ry. Co. of its 16-mile line from Coldwater to Orillia. It will include an iron swing bridge. The consul suggests that this may afford openings for American contractors and manufacturers. As noted on May 19, the TORONTO CONSTRUCTION CO., 14 Wellington St. East, Toronto, Ont., has been awarded the contract for the construction of the line which the Canadian Pacific Ry. Co. will build from Coldwater to Atherly Junction, to give direct connection with Orillia, Ont. Estimated cost, $500,000. This line was ordered by the Ontario Railway and Municipal Board, and will be used by the Canadian Northern, as well as the C. P. R.

Company is preparing to continue the double-tracking of the line between Portage and Brandon, Man. J. C. HARGRAVE & CO., Winnipeg, Man., who recently completed subgrade work on the section of the line from Winnipeg to Portage, have been instructed to continue west and will proceed at once.

CENTRAL ARKANSAS & EASTERN.—We are officially advised that contract has been awarded to JOHN SCOTT & SONS, St. Louis, Mo., for grading, bridging and track laying. Rails, track material and equipment have been ordered. Bridges are pile trestle construction. The line will be 30 miles long and will open up a rice and timber section, and will tap both the Rock Island and Cotton Belt systems. Thos. B. Goldsby is Gen. Mgr., and A. M. Van Auken is Ch. Engr., at Stuttgart, Ark.

CHICAGO & ALTON.—See item under Buildings: Chicago, Ill.

CHICAGO, BURLINGTON & QUINCY.—Contract for constructing the Fromberg-Scribner branch of the Burlington has been awarded to CROSBY, WILLIS & WELCH, of Cowley, Wyo., by the contracting firm of A. A. GUTHRIE & CO., of St. Paul, Minn. Work will commence at once as it is planned to complete the line before the end of the year. The road will be 50 miles in length and by it the main line, being built to Orin Junction in southern Wyoming, will be connected with the Billings & Northern line of the Great Northern System, forming a trunk system from the Gulf to the North Pacific coast, it is stated.

CHICAGO, WEATHERFORD & BRAZOS VALLEY.—We are officially informed that contract has been awarded to MITCHELL, PIGG & CO., Weatherford, Tex., for building this railroad from Weatherford to Bridgeport, 35 miles. Right-of-way and capital are secured and surveys made.

DEERING SOUTHWESTERN.—This railway, which is now operated for freight traffic only from Deering, Mo., to Camp, Mo., six miles, is to be extended to Caruthersville, Mo. The Commercial Club of Caruthersville will secure right-of-way and terminal. F. B. Montgomery is Pres. and Gen. Mgr., 234 Michigan Ave., Chicago.

FLORIDA RY.—This company, which is now building a line of railroad from Live Oak to Fernandina, via Jacksonville, Fla., has requested the authority of the War Department for the construction of five bridges across various streams in Nassau and Duval Counties. Requests for permits to build have been filed with Capt. George R. Spalding, Corps Engrs., U. S. A., who is the district officer at Jacksonville. The bridges are to be of substantial construction, having concrete buttresses and steel superstructure. T. P. Alston is Gen. Supt., Live Oak, Fla.

GRAND TRUNK PACIFIC.—Company has started work surveying a line from a point on the Regina North Portal route through Weyburn, Sask., to Crosby, N. Dak., where it will link with the Great Northern Ry.

HOUSTON, SOMERVILLE & WESTERN.—We are officially advised that surveys for this proposed line are now completed between the towns of Somerville and Taylor, Tex., a distance of 60 miles. Correspondence and bids are asked from contractors for grading of the same. The line contemplated will be 125 miles in length and will run through a timber country and traverses for the entire length a rich farming country, a part of which is at the present time overgrown with valuable oak timber. H. H. Fielder is Pres., 427 Boulevard, Houston; M. R. Hoxie, Vice-Pres.; L. J. Gould, Engr. of Construction, all at Houston, Tex. Noted on May 26, under "Texas."

INTERNATIONAL & GREAT SOUTHERN.—The Hines Construction Co. of Oklahoma City has been granted a state charter in Oklahoma to build the line proposed by the International & Great Southern Ry. Co., organized four years ago. The proposed new road follows practically the identical route laid out by the Kansas, Oklahoma & Panama Ry. Co., organized here recently with $1,000,000 capital and noted in Engineering News on June 2 The construction company is capitalized at $50,000 and its directors are P. A. Hines and Ferdinand J. Karasek, of Chicago, and S. C. Glasgow, of Oklahoma City.

KANSAS CITY, MEXICO & ORIENT.—We are officially advised that contract was let on June 4 to ROACH & STANSELL, of Memphis, Tenn., for the grading of 25 miles of the Del Rio extension of the Kansas City, Mexico & Orient Ry. of Texas, from Del Rio north. The work includes grading only. Noted on May 5.

LEHIGH VALLEY.—Right-of-way has been secured for the proposed $2,000,000 branch between Lumber Yard, on the Hazelton Branch and Hayes Creek, on the main line of the Lehigh Valley, one mile east of the village of Tannery. It will cross the main line of the Jersey Central, at the Lehigh River opposite Hayes Creek by a bridge 90 ft. high and over a quarter of a mile long. The bridge, costing approximately $1,200,000, will take about two years to build. The new extension will be about twelve miles long. E. B. Ashby is Ch. Engr., 143 Liberty St., New York. Noted on March 31.

MISSOURI INLAND & SOUTHERN.—A corps of engineers in charge of C. H. Evers, of Seattle, Wash., has commenced a resurvey of the route of the Missouri Inland Ry., which will run from Rolla to Houston, Mo. Engineers will survey a route about three miles east of Rolla to Little Dry Fork Creek and thence to survey in a direct line to Dillon Station on the 'Frisco about five miles east of Rolla. E. E. Young, Licking, Mo., is Pres. Noted on Nov. 25, '09.

NATIONAL TRANSCONTINENTAL RY.—The annual report of the National Transcontinental Railway Commission covering the work of the last fiscal year shows that 63% of the grading on the whole line from Moncton to Winnipeg is now finished and 45% of the bridging. During the year 521 miles of track were laid, the total track mileage on March 31 was 760 miles, with an additional 165 miles of sidings. At the present date steel is laid on about half of the distance from Moncton to Winnipeg. Construction work is being vigorously pushed this summer on every section of the line, and it is expected that the road will be ready for through traffic in August or September, 1912. The line from Winnipeg to Fort William will be opened for regular traffic next August. The total expenditure on the road up to the end of the fiscal year was $71,137,993. G. Grant is Ch. Engr., Ottawa, Ont.

NEW YORK, NEW HAVEN & HARTFORD.—The principal objection which the counsel for the New York, New Haven & Hartford R. R. Co. made on June 16 before the Board of Railroad Commissioners of Massachusetts to the Grand Trunk project for a line through southern Massachusetts was that the New Haven has already petitioned for a similar line from Palmer to South Bridge, a distance of about 15 miles. The Commission was told that the New Haven System had had such a line under contemplation for some time, and called attention to the petition on file with the Commission. The Grand Trunk R. R. Co., which is the petitioner at the hearing, desires permission to build a line from Palmer to the Rhode Island State line, as part of its proposed Providence outlet. The New Haven's contemplated line would connect Palmer with South Bridge, the latter being the terminus of the branch from the Midland division. The total cost of the line is estimated at $2,810,000, and the road would run through the villages of Westville, Fiskedale, East Brimfield and Brimfield. Noted fully on June 9 under "Southern New England Ry."

NORTHERN PACIFIC.—We are officially advised that contracts for work from Tacoma to Tenino, Wash., and from Grand View to Gibbon, Wash., have not yet been awarded. Noted on June 9.

OREGON & WASHINGTON.—Resolutions have been filed at Portland, Ore., by this company to amend its articles of incorporation so that it may construct 67 miles of road in Lewis County, Wash., from Winlock. J. R. Holman is Asst. Gen. Mgr., Seattle, Wash.

PACIFIC & IDAHO NORTHERN.—Contracts will be let at once for building an extension from Evergreen, Idaho, northeast to Meadows, 15 miles. E. M. Heigho is Pres. and Gen. Mgr., Weiser, Idaho. Noted on June 9.

SAN PEDRO, LOS ANGELES & SALT LAKE.—Reports from Salt Lake City state that passenger traffic over the San Pedro, Los Angeles & Salt Lake route, which has been tied up since the great flood last winter that wiped out nearly a hundred miles of track in eastern Nevada, was resumed on June 15. The company is using the old right-of-way through the flood district, but work on the parallel high line is being pushed.

SUMTER & NORTHWESTERN.—Incorporated in Mississippi to build a line to connect Sumter, Ala., with Meridian, Miss. The incorporators are John Alexander, of Aurora, Ill.; George C. Hixon, of Chicago; J. M. Hixon, of LaCrosse, Wis.; T. E. Brittingham, of Madison, Wis.; and F. J. Hughes, of Sumter, Ala.

WICHITA, KINSLEY, SCOTT CITY & DENVER AIR LINE.—We are officially advised that contract has been awarded to the AIR LINE CONSTRUCTION CO., Kinsley, Kan., for building this line, which it is proposed to build to connect the cities named in its title. Survey has been made between Wichita and Scott City. Capital is secured and right-of-way is partly obtained. W. F. Brown is Pres., Iuka, Kan., and J. E. Theyer is Ch. Engr., Turon, Kan. M. C. Tubbs is Secy. and Treas. of the construction company, at Kinsley.

WISCONSIN & NORTHERN.—Surveys are made for the proposed 44-mile extension from Shawano to Neenah, Wis.. It is also proposed to build from Van Ostrand to Crandon and from W. & N. Junction to McKeever. The railroad is now in operation between Shawano and Van Ostrand, 36 miles, and from Crandon to W. & N. Junction, six miles. Wm. Cambier is Ch. Engr., Oshkosh, Wis.

MEXICO.—L. Hostetter, U. S. Consul at Hermosillo, Sonora, Mexico, reports that a concession for the building of a new railroad from Ures to Kino Bay has been received by Ramon de Negri and associates. This road is to be 168 miles long and will open up a large and rich mining and farming country. Conditions imposed by the Government are that the road must be started within six months and must be finished in at least two years, but the concessionaires expect to complete the work long before the required time, as the road will be level most of the way and there is no heavy work anticipated. In applying for information to the Bureau of Manufactures, Dept. of Commerce and Labor, Washington, refer to file No. 5050.

BRITISH HONDURAS R. R.—W. L. Avery, U. S. Consul at Belize, states that the British Honduras R. R. extension is nearly completed. The pier construction at Commerce Bight, 1,200 ft. long, extending into four fathoms of water, is built with heavy piling from the AMERICAN CREOSOTE WORKS, at New Orleans. The railway line extends through dense tropical growth, which will be cleared for fruit planting. The government will grant small holdings only, selling crown land at $3 to $8 an acre, with the obligation to cultivate within a given time. The United Fruit Co. is beginning work on its 7,528 acres recently purchased. It is expected that before many months a steamer load of 20,000 bunches of bananas will be shipped from the pier.

CHILEAN STATE RYS.—In announcing that bids were to be opened on June 15 for electrifying the first section of the Chilean State Railways, Charles F. Baker, U. S. Vice-Consul at Valparaiso, states that two European houses were practically the only bidders. Hon. Pedro Montt, Pres. of the Republic, made inquiry as to whether American firms were going to submit proposals, but the Vice-Consul says that none made studies of the proposition.

ELECTRIC RAILWAYS.

BRIDGEPORT, CONN.—The Judge of the Superior Court probably will issue soon a certificate that public necessity and convenience require the construction of the proposed interurban trolley line for which the Bridgeport & Danbury Electric Ry. Co. holds a charter. No opposition to the road developed at the recent hearing. All the needed options on the right-of-way have been procured for the 20-mile line, and the promoters hope to begin work by August. The company has a capital stock of $1,500,000. The route is through the towns of Bridgeport, Trumbull, Monroe, Newton, Bethel and Danbury. Fully noted on June 2.

TORRINGTON, CONN.—The Connecticut Co. probably will extend its Torrington & Winchester St. Ry. line from Torrington to Litchfield and to Bantam Lake, 3½ miles beyond the latter village. The Connecticut Co. operates electric railways, light plants, etc., for the New York, New Haven & Hartford R. R. Co. E. Gagel is Ch. Engr., New Haven.

BOLIVAR, N. Y.—The Southwestern New York Traction Co. has applied to the Public Service Commission, Albany, for permission to construct an electric railroad in Allegany County from Bolivar to Wellsville, a distance of 18 miles. The section through which the proposed road is to be constructed is without railroad facilities. C. M. Van Curen is Pres., Bolivar. Noted on June 9.

SARATOGA SPRINGS, N. Y.—The Town Board of Saratoga Springs and the Sewer, Water and Street Commissioner of the village have granted a franchise to the Hudson Valley Railway Co. to lay tracks in East Ave. for the purpose of connecting the Glens Falls and Troy divisions. D. E. Van Wirt is Ch. Engr., Glens Falls, N. Y.

ALTOONA, PA.—We are officially advised by the Gallitzin Construction Co. that the Johnstown & Altoona Ry. Co., 301 Suppes Bldg., Johnstown, probably will not let contracts until the end of this month for construction work for which bids were asked until May 30. Contract is for undertaking the work of grading the whole or part of the following: Earth, 167,000 cu. yds.; rock, 156,000 cu. yds.; extra fill, 113,000 cu. yds.; concrete culverts, 1,400 cu. yds.; reinforced-concrete bridge structures, 5,000 cu. yds. Herbert F. Pierce is Ch. Engr., Gallitzin Construction Co., Johnstown. Officially noted on May 5 and May 12.

PITTSBURG, PA.—WM. PICKETT & CO., Pittsburg, have been awarded the contract for grading and laying track for the Pittsburg Railways Co. extending from East Malden St. to the Washington Park, and in a short time the track laying will be commenced.

GRAHAM, VA.—The Graham Electric Ry. Co., recently incorporated in Virginia, will build two miles of line from East Graham to West Graham, including a bridge over the Bluestone River. The incorporators are: James F. Dudley, Pres.; Wm. Mitchell, Vice-Pres.; C. W. Kiester, Treas.; R. B. Williamson, Secy., and George P. Crockett and Lee J. Barbee, all of Graham. Capital stock, $25,000.

FRANKFORT, KY.—Articles of incorporation of the Frankfort & Owenton Traction Co. will be drawn up by F. L. Johnson, Att'y, of this city, as soon as he receives the names of three members of the Owenton Commercial Club who are to be among the incorporators. The four members of the Frankfort Business Men's Club who will be among the incorporators are Col. Charles E. Hoge, George B. Harper, George C. Shaw and Attorney F. L. Johnson.

HORSE CAVE, KY.—We are officially informed that the organization of the Horse Cave & Eastern Ry. Co. has not been completed yet. Company plans to incorporate and to put engineers in the field next month. Gasoline or gasoline-electric motive power will be used for passenger service and steam for freight. The railway will run from Horse Cave, Ky., via Hiseville and Knob

Lick, to Edmonton, 25 miles. An old survey may be used. There will be two small bridges. Right-of-way is partly obtained. Arrangements for capital are now completed. Louis Edwards, 1463 Arlington Ave., St. Louis, Mo., is Pres.

YOUNGSTOWN, OHIO.—The Pennsylvania & Mahoning Valley St. Ry. Co. has secured a right-of-way to construct a street railway from this city to Mineral Ridge, five miles from here. Construction will be started soon. Randall Montgomery is Vice-Pres., Youngstown.

PORTLAND, IND.—The Muncie & Portland Traction Co. may build an extension to Celina, Ohio, from Portland via Coldwater and Fort Recovery, Ohio. E. B. Lincoln is Gen. Mgr., Portland.

HANOVER, IND.—Construction work on the new Cincinnati, Madison & Louisville Traction line has been started between Hanover and Madison. President Greeley says the road will be completed by next January.

LANSING, MICH.—The Detroit, Lansing & Grand Rapids Ry. Co., of Grand Rapids, has been granted a franchise by the Council to build a railway over certain streets in Lansing. Noted fully on May 12.

MILWAUKEE, WIS.—At a recent meeting of the directors of the Milwaukee Western Elec. Ry. Co. it was decided to extend the company's line from Fox Lake to Green Lake, a distance of nearly 25 miles. Plans are also being made to extend the line to Ripon and Berlin and possibly Fond du Lac or Oshkosh. W. E. Elliott is Gen. Mgr., 1914 Majestic Bldg., Milwaukee. C. A. Chapman is Engr., 1537 Marquette Bldg., Chicago.

MADISON, WIS.—H. H. Zigler, Pres., and Joseph Ellis, Ch. Engr., of the Cincinnati Construction Co., and J. J. Hartley, of Philadelphia, and E. F. Maxwell, of Cincinnati, have the contract to build an interurban line from Janesville to Madison. Mr. Zigler states that the right-of-way has been secured; that the bonds would be filed with the various cities within 30 days, and that construction work would commence in July and be completed in December.

BELLEVILLE, KAN.—E. S. Alnutt, of Belleville, Pres. of the Motor Grand Traction Co., states that "the work of construction will be commenced immediately beginning at Canton and proceeding north to Salina and as soon as this is well under way, construction work will then be taken up at Belleville and pushed south to Salina." As noted on Jan. 27, this "company was chartered to build a railway, to be operated by gasoline or electricity, from Belleville via Concordia, Minneapolis, Salina, Canton and Newton to Wichita, a distance of 150 miles. It will extend through Republic, Cloud, Ottawa, Salina, McPherson, Harvey and Sedgwick Counties. Capital stock, $1,000,000. Headquarters, Belleville. Incorporators: E. S. Alnutt, E. N. Van Hosen, G. L Litel and Roy S. Johnson, of Belleville, and W. L. Hope, of Fairbury."

SIOUX FALLS, S. DAK.—The South Dakota Interurban Ry. Co. has perfected its organization and stockholders recently held a meeting at Parkston, S. Dak. The line will run from Parkston to Bijou Hills, and from Parkston to several other places. Board of Directors has elected the following officers: Pres., W. E. Miller, Bijou Hills; Vice-Pres., A. F. Grimm, Parkston; Secy., F. E. Graves, Bijou Hills; Treas., R. W. Thwing, Bijou Hills. Noted on April 7.

HOUSTON, TEX.—We are officially advised that 5,700 tons of 80-lb. steel rails for the construction of the Galveston-Houston Ry. have been ordered by the Stone & Webster Engineering Corporation, Const. Engrs., Boston, Mass. The PENNSYLVANIA STEEL CO. has the contract and shipment will be begun from the Sparrows Point plant July 11, delivery being completed by Sept. 1 at Texas City and Galveston. The Galveston-Houston Ry. is a new interurban road being built between Galveston and Houston, a distance of 50 miles. Galveston will be reached over the new Greater Galveston causeway. This causeway, two miles in length, is being built of concrete arches with a steel "draw" at its center. It will be finished during the current year and the construction of the interurban is being pushed to take advantage of it as soon as possible. Mark Lowd is Southwestern Mgr. for the Stone & Webster Engineering Corporation, at Houston. Noted on April 21.

BROWNSVILLE, TEX.—B. G. Stegman states that he and his associates have obtained a 25-year franchise to operate a 4-mile street railway in Brownsville. Gasoline motor cars will be used. Noted on May 26.

SANTA CRUZ, CAL.—The Union Traction Co. has been granted a 50-year franchise by the Council to extend its railway in Santa Cruz to Laveaga Park. S. W. Coleman is Mgr.

SACRAMENTO, CAL.—The directors of the Vallejo & Northern R. R. Co., which proposes to build a railway to connect Vallejo, Cordelia, Suisun, Vacaville and Sacramento, will hold a meeting July 28, when action will be taken toward increasing its capital stock from $2,500,000 to $10,000,000. Wm. Pierce, Suisun, Cal., is Secy. Noted fully on March 3.

VANCOUVER, WASH.—The Vancouver, Camas & Washougal Traction Co. has been incorporated in Washington by E. M. Rands, H. C. Phillips, W. D. Smith, J. Elwell and C. Earle. Capital stock is $100,000. The line will connect the places named in company's title.

SAN JOSE, CAL.—F. E. Chapin, Gen. Mgr. of the Peninsular Ry Co., has announced that the construction of the line from Mayfield through the Stanford estate to San Mateo is to be started in the near future. Satisfactory arrangements have been concluded with the University authorities for the right-of-way on the Stanford estate.

LIGHT AND POWER PLANTS.

(** denotes that this work is advertised in Engineering News.*)

RICHFORD, VT.—See item under Manufacturing Plants.

BOSTON, MASS.—A plan has been presented to the School House Commission providing for the construction of a building for an independent boiler plant and power-house for heating and lighting the Cushman, Eliot, Hancock, Christopher, Columbus and Hancock Annex school houses in the North End. Estimated cost, $83,300. George E. Brock and James P. Magenis, of the School Board, have been appointed to act with the commissioners in investigating the matter.

SOMERVILLE, MASS.—The Board of Aldermen is considering the establishment of an electric generating plant in the Latin School to supply electricity to light the different municipal buildings on Central Hill. Estimated cost of a generator, $5,000 of operating the plant $2,000 per year.

WATERTOWN, MASS.—The Hood Rubber Co. has awarded contract to the EDISON ELECTRIC ILLUMINATING CO., 39 Boylston St., Boston, to supply electricity for operating the plant of the company. The large steam engines will be abandoned and the plant equipped for electric motor drive. About 2,500 HP. will be required.

PALMER, MASS.—The Central Massachusetts Electric Co., is making preparations to increase the output of its plant. The company now furnishes electricity for lamps in Palmer, Thorndike, Three Rivers, Bondsville, North Wilbraham, Monson, West Warren and Warren, and for operating the electric system of the Springfield & Eastern St. Ry. Co. C. S. Talmadge is Ch. Engr., Palmer.

*WESTFIELD, MASS.—Bids for building underground electrical conduits in Westfield, will be received by the Committee on Repaving Elm St. and Park Sq. at the office of the Town Clerk, until 2 p. m., June 29. The work includes the building of about 9,000 ft. of conduit of various sizes from one to twelve ducts together with the necessary manholes and other appurtenances. Oren E. Parks is Town Engr.

WATERBURY, CONN. — Westinghouse, Church, Kerr & Co., 10 Bridge St., New York, have been engaged as engineers in connection with the power plant of the Connecticut Co. Contract for construction has been awarded to FRED T. LEY & CO., of Springfield, Mass. Noted on June 2.

HARTFORD, CONN.—The Hartford Electric Light Co. has awarded contract for an addition to its plant at Dutch Point to WESTINGHOUSE, CHURCH, KERR & CO., 10 Bridge St., New York, and the GENERAL ELECTRIC CO., 30 Church St., New York. The approximate cost of this addition is $400,000. The building, which will cost $75,000, will be of concrete and steel foundation and brick superstructure. Two horizontal Curtiss turbines, rated at about 5,000 KW. each, will be installed by the General Electric Co. This will give the company about 25,000 HP.

DANBURY, CONN.—The Danbury & Bethel Gas & Electric Light Co. is preparing to install in its power station on Pahquioque Ave., a new steam turbine electric generator which will more than treble the electrical power capacity of the plant. Two additional 300-HP. boilers will be added to the equipment, and the station will be enlarged.

PLAINFIELD, CONN.—The Nashawago Electric Lighting & Power Co., has purchased a site for its proposed power plant, 30 × 60 ft., and proposes to furnish electricity for lamps and motors in Plainfield, Griswold, Canterbury and Killingly. Contracts for furnishing electricity for lighting Lawton and Jewett City have been secured.

*WEST POINT, N. Y.—Bids are asked until 2 p. m., July 6, by the Quartermaster, U. S. A., West Point, for furnishing and installing extension of steam distributing system.

MASSENA, N. Y.—We are officially advised that the St. Lawrence River Power Co., Pittsburg, has awarded contract to the T. A. GILLESPIE CO., 50 Church St., New York, for an ice-sluice and forebay dam at Massena, N. Y. Estimated cost, $350,000.

LONG ISLAND CITY (L. I.), N. Y.—Bids are asked until 11 a. m., June 29, by Lawrence Gresser, Pres. Boro. Queens, for all material and labor required for furnishing and installing electric combination and gas lighting fixtures in the Queens County Court House, Long Island City, Boro. of Queens.

NEW YORK, N. Y.—Bids are asked by the Board of Health, until 10 a. m., July 5, for furnishing and delivering electrical material sand supplies, as required, to the various hospitals of the Department of Health of the City of New York.

NEW YORK, N. Y.—Bids are asked by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, until 3 p. m., July 5, for repairs, alterations and additions to the electric equipment in Public Schools Nos. 28, 74, 93, 94, 166 and DeWitt Clinton High School, Boro. of Manhattan; for repairs, alterations and additions to the Electric equipment in Public School No. 20, Vreeland Ave. and Heberton Ave., Boro of Richmond. For repairs to heating and ventilating apparatus in Public Schools Nos. 3, 3 Annex, 18, 22, 43, 86, 110, 145, 147 and Commercial High School, Boro. of Brooklyn.

NEW YORK.—Bids were received as follows by the Department of Correction on June 21 for furnishing all labor and materials required to apply new covering insulation to all pipe lines, fittings, valves, traps, etc., in the new steam subway on Harts Island: A. M. Gilmore, 105 John St., $8,487; William Horne Co., 71 West 132d St, New York, $9,400.

FORT SLOCUM (New Rochelle post-office), N. Y.—Bids are asked until 10 a. m., June 25, by Capt. Peter Murray, Construction Q. M., U. S. A., for rewiring electric lighting pole line, furnishing and installing electrical apparatus for sub-station and construction of a building for sub-station at Fort Slocum.

ALLENTOWN, PA.—Bids will be received by the Board of County Commissioners of Lehigh County, Allentown, until June 27, for furnishing material and installing an electric light and power, sewerage and fire service at the Lehigh County Home, located near Wescoesville, South Whitehall Township, as follows: Section 1: (a) construction of a central power house, including foundation and stack; (b) furnishing and erection of power equipment, including boilers, flues, stack connections, feed pumps, feed water heaters, steam piping, valves, separators, fire service pump, generators, engines, switchboards; (c) complete installation of all inside and outside wiring, including all transmission lines, conduits, switches, poles, arc and incandescent lamps and fixtures; (d) construction of a fire service, including reinforced concrete standpipe, conduit and intake basins; (e) installation of a complete sewerage system. Plans and specifications may be seen at the office of the County Commissioners and copies may be secured by depositing $100, which will be returned if a bid is submitted. J. S. Troxell is Clk.

PHILADELPHIA, PA. — The NERNST LAMP CO., 303 Wood St., Pittsburg, has received contract from the Banks Business College of Philadelphia, for an installation of Westinghouse-Nernst lamps for the illumination of its new quarters. Single glower lamps, multiple glower lamps, and chandeliers will be used.

ALTOONA, PA.—The ALTOONA ELECTRICAL ENGINEERING CO., of Altoona, has been awarded contract by Gable & Co., of Altoona, for installing the electric equipment in the new addition to the store now in course of erection, the warehouse and the stables and also for the additional story to be placed on the old building.

ALBERTON, MD.—The Gary Mfg. Co. has awarded contract for the construction of a dam 30 ft. high and 300 ft. long across the Patapsco River to the AMBURSEN HYDRAULIC CONSTRUCTION CO., 176 Federal St., Boston, Mass. Wehr, Walden & Dukehart, 412 Continental Bldg., Baltimore, Md., are Engrs.

BALTIMORE, MD.—Bids were received as follows on June 20 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for instalation of boilers and accessories at the Baltimore Custom-House: Flannery-Griffiths Co., Baltimore, $5,900; Crook, Kriess & Co., Baltimore, $6,245; E. Kieler Co., Williamsport, Pa., $8,082; John B. Adt, Baltimore, $7,046.

CENTREVILLE, MD.—Application has been made to the Board of Town Commissioners for a franchise to install a gas plant. It is the purpose to lay pipes in the same excavations and at the same time the sewerage system is being constructed. Address Town Commissioners.

WASHINGTON, D. C.—The Arcade Co., of Washington, is in the market for equipment for a small electric plant, including steam boilers, generators, etc. Averill & Adams, 718 Union Trust Bldg., Washington, D. C., are Archs.

Bids were received as follows on June 15 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, for lighting fixtures for various buildings: R. Williamson & Co., Chicago, Ill., $7,594; Reading Chandelier Works, Reading, Pa., $11,518; David J. Braun Mfg. Co., Chicago, $11,290; Charles Stolacheck & Bro. Co., Milwaukee, Wis., $6,545; Edward Miller & Co., Meriden, Conn., $9,441.

COLLEGE PARK, GA.—On May 20 the citizens voted to issue $65,000 of bonds for the installation of an electric light plant, waterworks and sewerage systems. A commission consisting of J. D. Hardin, W. J. Harrin and George B. Findley has been appointed to take charge of the improvements.

JACKSONVILLE, FLA.—Contracts have been awarded by the Board of Bond Trustees for machinery for the municipal electric light plant as follows: To the ALLIS-CHALMERS CO., of Milwaukee, Wis., for one 1,500-KW. turbo-generator at $26,480; for condenser equipment, to the C. H. WHEELER MFG. CO., 18th and Lehigh Sts., Philadelphia, Pa., at $10,075; for motor-generator set, to the FORT WAYNE ELECTRIC WORKS, of Fort Wayne, Ind., at $9,760. Bids were opened on June 6. List of bidders noted on June 16.

McKENZIE, TENN.—The citizens have voted to issue $18,000 of bonds for a street lighting system and extension to the waterworks system.

LIVINGSTON, TENN.—The Livingston Light & Power Co., lately incorporated to construct a hydro-electric power plant to generate electricity for lighting the town, has awarded contract for building the plant, it is reported to the H. E. SPEYER CO., of Algood, Tenn.

HARRODSBURG, KY.—Eastern capitalists and engineers are inspecting a site on the Dix River, north of here, where they plan the construction of a dam to cost $1,250,000, develop 12,000 HP., and furnish light and power for a number of Central Kentucky towns.

COLUMBUS, OHIO.—The Hocking Light & Power Co., of Nelsonville, Ohio, has been incorporated with a capital stock of $10,000 to own and operate and acquire electric lines for selling light and power in Nelsonville and vicinity. The incorporators are H. H. Long, G. M. Murray, C. H. Davis, L. S. Madden and G. H. Sweetland.

RANDALL, OHIO.—Contract for the construction of a large power plant for operating the ore handling machinery for the N. Y., P. & O. Dock Co., at Randall, has been awarded to F. C. WERK, electrical engineer and contractor, New England Bldg., Cleveland, Ohio. **The building will be of fireproof construction, 115 ft. × 42 ft., with a brick stack 150 ft. high. Equipment will include cross-compound, condensing engines, direct-current generators, water-tube boilers, heater, pumps and switchboard. The drilling of wells and installing water softener plant and compressor plant is included in the contract.**

ATHENS, OHIO.—We are officia[illegible] advised that all bids received on June [illegible] by the Board of Trustees of Ohio Uni[illegible]ty, at Athens, I. M. Foster, Secy., for fur[illegible]ing material and erecting an addition [illegible] the power-house and building a new smok[illegible]ck, and for new boilers, feed pumps, [illegible]um pumps and for the piping and radia[illegible] in Ellis Hall, have been rejected. Some [illegible]ges will be made in the plans and the wo[illegible]ill be readvertised in about two weeks, [illegible] to be asked about Aug 1. Frank L. Pack[illegible] is Arch., New Hayden Bldg., Columbus.

INDIANAPOLIS, IND.—Improvemen[illegible]ill be made by the Peoples Light & Hea[illegible]o., at its plant, Alabama and 16th St[illegible] at once. George M. Brill, Chicago, has [illegible]en employed as consulting engineer an[illegible] as soon as he has perfected his plans, con[illegible]ts will be let. Company will increase its [illegible]er capacity from 1,850 HP. to about 2,50[illegible]P. and will build an addition to its pla[illegible] to accommodate the new boilers. A brick [illegible]ke stack, 200 ft. high, will be erected, an[illegible] the plant will be equipped with smoke pre[illegible]ting devices and automatic ash and coa[illegible]n-veyors. Estimated cost, $50,000. [illegible]D. Harris is Secy. and Mgr.

CRAWFORDSVILLE, IND.—Bids wi[illegible] be received in about three weeks for the [illegible]n-struction of the new municipal electric [illegible]ht plant. Estimated cost, $100,000. The E[illegible]r-line Co., of West La Fayette, Ind., has c[illegible]ge of construction.

NEW MARKET, IND.—The New Ma[illegible]ket Light Co., lately incorporated, will inst[illegible] a plant to furnish electricity for lamps, [illegible]eat and motors in New Market and vicinity. The directors are: W. V. Yount, N. J. Mill[illegible] L. B. Elter and Alberti Hinipierer.

COLUMBUS, IND.—The Commissioners of Bartholomew County have granted to the Columbus Gas & Light Co., of Columbus, Ind., a franchise in East Columbus.

SOUTH BEND, IND.—The city is considering plans for the installation of ornamental street lamps on the principal business streets here.

LOGANSPORT, IND.—Logansport business men have decided to install an ornamental system of electric street lamps on Market, Third and Fourth Sts, proposing to erect arches across the streets. The merchants will purchase and erect the system and maintain it.

RICHMOND, IND.—The County Commissioners of Wayne County on June 8 regranted the franchise to Robert S. Ashe without changing any of its provisions. Franchise provided for the erection of transmission lines over all the turnpikes in Wayne County, for which no compensation was asked, to supply electricity for lamps and motors to small villages and farmers along the lines.

GARY, IND.—The United States Steel Corporation, 71 Broadway, New York, will erect a power-house here, 105 × 575 ft. The new plant will duplicate the present electric station which now operates the steel works and blast furnaces and furnishes current for pumping water and lighting the city of Gary and surrounding towns. An expenditure of $1,000,000 will also be made in improving No. 1 power-house. The duplicate plant will have generators of large capacity and 40,000 HP. Power from the new electric station will be utilized to operate the plants of the American Bridge, the American Tin Plate and Sheet Steel and the National Tube Companies. In case of accident the additional power facilities will serve as an emergency supply.

*STURGIS, MICH.—Bids will be received by the Board of Public Works until 7 p. m., July 6, for: Contract No. 1, a brick and concrete water-power station building and excavation for a tail race; Contract No. 2, a concrete multiple arch spillway and an earth embankment. The approximate quantities of the principal items will be: Contract No. 1, for building, 1,900 cu. yds. of excavation, 1,100 cu. yds. of concrete, 16 tons of steel reinforcing and 70,000 brick; for tail race, 2,000 to 4,000 cu. yds. of excavation; Contract No. 2, for spillway, 4,500 cu. yds. of excavation, 1,900 cu. yds. of concrete, 23 tons of steel reinforcing; for embankment, 24,000 cu. yds. of fill. Plans and specifications may be inspected and information obtained at the offices of J. S. Flanders, Mgr., Sturgis. Gardner S. Williams, C. E., is Consulting Engr., Ann Arbor, Mich.

*CARROLLTON, ILL.—See item under Water Supply—Irrigation.

CHICAGO, ILL.—Bids will be received until June 24 by the South Park Commissioners, C. L. Hutchinson, Secy., for furinshing and delivering 6,000 incandescent lamps.

We are officially advised that the NERNST LAMP CO., 303 Wood St., Pittsburg, Pa., has received four contracts from Marshall Field & Co., Chicago, aggregating 888 glower units. All of the lamps are of the multiple glower type and special finished housings are used.

MILWAUKEE, WIS.—John I. Beggs, Pres., Milwaukee Electric Ry. & Light Co., has announced that the Commerce St. power plant will be increased from 20,000 HP. to 80,000 HP. The new power will come from the installation of three large steam turbines of 20,000 HP. each, in an addition to the Commerce St. power house which will be built on the ground north of the present plant, 80 ft. just north having been acquired for that purpose. Of this increased power, 20,000 HP. will be ready for service by Dec. 1. Of the remainder, 20,000 HP., will be added in 1911 and 20,000 HP. in 1912.

ST. PAUL, MINN.—The Business League of St. Paul, E. P. James, Secy., will construct a power building for small manufacturers at Ninth and Wacouta Sts. It will be seven stories high, 96 × 280 ft., fireproof and cost approximately $220,000.

WICHITA, KAN.—Plans for the construction of the new power plant of the Edison Gas & Electric Co. are nearing completion and bids will be asked soon for construction. The machinery for the power house has already been ordered. L. O. Ripley is Vice-Pres.

CANTON, KAN.—On June 7 the citizens voted $[illegible]0,000 of bonds for electric light and water works.

BEACH, N. DAK.—The city is preparing to install a municipal electric light plant. A 40-[illegible] 50-ft. power station will be erected of brick or concrete, the equipment to consist of a 150-HP. compound engine, direct-connected to a 3-phase, 60-cycle alternator and a [illegible]50-HP. boiler. A deep-well pump and feed water heater will also be installed.

WAHPETON, N. DAK.—Bids were opened on June 14 as follows by the Commissioner of Indian Affairs, Washington, D. C., for furnishing all labor and material for a central heating plant at the Wapheton School: Wapheton Hardware Co., Wapheton, $6,478; Mac[illegible]ac & Kremer-Moon Heating Co., St. Louis, Mo., $5,731; J. W. Wickens & Co., Will[illegible]ar, Minn., $5,350.

DARDANELLE, ARK.—The Russellville Water & Light Co., C. S. Bacon, Vice-Pres., 900 Main St., Pine Bluff, Ark., has secured a 50-year franchise to furnish electricity to this town and has purchased the town plant for $10,000.

CAMDEN, ARK.—The Camden Power Co., has been incorporated with a capital of $1[illegible]0, by T. J. Watts, G. R. Belky, and others, of Camden, to manufacture electrical power and establish plants for distribution, etc.

MURFREESBORO, ARK.—The Railway Incorporators of Arkansas have granted a charter to the Little Missouri Power Co., together with franchise to establish a power plant near here on the Little Missouri River. Capital, $100,000. M. W. Greeson is Pres. The franchise runs for 25 years at the end of which period the State can dictate the prices charged for power. Noted on June 2.

CORPUS CHRISTI, TEX.—The Corpus Christi Street Ry. Co., which recently finished and has in operation an electric street railway system here, will erect its own power plant. It is under contract at present to take power from the local electric light plant. The company will also furnish electricity for lighting purposes and power for private consumers in the city.

AUSTIN, TEX.—The authorities of the University of Texas have in contemplation the installation of water-tube boilers up to 600 HP. and apparatus for mechanical stoking in the new power-house here which was recently finished.

HENRIETTA, TEX.—George M. Judson of Fort Worth, Tex., is promoting the building of a gas pipe line from the Henrietta gas field to Amarillo, touching at Quanah and other towns along the route.

FORT CROCKETT (Galveston post-office), TEX.—Contract for the installation of an electric lighting system at this post, bids for which were opened on May 31, has been awarded by the Quartermaster General, U. S. A., Washington, D. C., to the F. E. NEWBERY ELECTRIC CO., Century Bldg., St. Louis, Mo., at $11,944. This work is to be completed within 120 working days, work to be commenced on or before June 27, 1910.

APACHE, OKLA.—Bids will be received by the town until June 27 for materials and equipment required for the construction of an electric light plant and water and sewer systems.

MOGOLLON, N. MEX.—The Westinghouse-Church-Kerr Co., 10 Bridge St., New York, will install a hydroelectric plant on the Frisco River near Mogollon.

WALLA WALLA, WASH.—The Pacific Power & Light Co. was incorporated on June 16 under the laws of Maine with a capitalization of $7,500,000, divided into $1,500,000 7% cumulative preferred and $6,000,000 common stock. It is a subsidiary company of the American Power & Light Co. and has taken over the gas properties in Walla Walla and North Yakima, Wash.; Lewiston, Idaho, and Astoria and Pendleton, Ore.; the electric properties in Walla Walla, Astoria, Pendleton and Athens, the local trolley situation in Astoria and in Walla Walla, and an interurban line running from Walla Walla to Milton; also the Strahorn properties, consisting of electric light, power and water systems in North Yakima and along the valleys of the Columbia and Yakima Rivers. The Pacific Power & Light Co. is controlled through ownership of its common stock by the American Power & Light Co., which in turn is controlled by interests associated with the Electric Bond & Share Co.

GOLD HILL, ORE.—The Gold Hill R. R. & Lumber Co., is contemplating providing electricity for its new sawmill, now being constructed, and will either erect a power plant in Gold Hill, on the Rogue River, or construct a transmission line from Butte Falls, where 20,000 HP. may be developed.

ALLEGHANY, CAL.—The Middle Yuba Hydro-electric Co., is planning to construct two large hydro-electric power plants above the power plant of the Plumbago mine. Sites and rights of way for transmission lines have been secured. The company has made arrangements with the Bay Counties Power Co., to furnish electricity to operate the mines, pending the building of the plant.

SAN MIGUEL, CAL.—The Board of Trustees has passed an ordinance granting a franchise to C. F. Hoffman to erect transmission lines through the public highways of San Miguel for the transmission of electricity for lamps, heat and motors, and also to lay gas mains.

RICHMOND, CAL.—The Richmond Light & Power Corporation filed articles of incorporation with the County Clerk on June 4. The incorporators are: Sidney F. T. Brock of Philadelphia, J. S. Lamson of San Francisco, Allen L. Chickering of Oakland, Winfield Dorn of Oakland, and Evan Williams of San Francisco. The authorized capital of the new concern is $2,500,000.

SAN FRANCISCO, CAL.—Bids were received as follows on June 15 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the installation of a heating system in the Appraiser's Stores, San Francisco: McFell Electrical Co., San Francisco, partial bid; Standard Engineering Co., San Francisco, $44,130; Peters-Eichler Heating Co., St. Louis, Mo., $44,895; Charles C. Moore & Co., Engrs., San Francisco, $46,961; John G. Sutton, San Francisco, $39,130.

OROVILLE, CAL.—The Oro Water, Light & Power Co. is contemplating the construction of a large power plant at the mouth of Yellow Creek, and proposes to build a large ditch to the bluff on the Feather River, near the mouth of Yellow Creek, where a fall of over 1,900 ft. can be secured.

ALAMEDA, CAL.—Bids will be received soon for supplying electricity for the day service of the municipal electric light plant. The minimum amount to be contracted for will be 175 KW. Estimated cost of equipment of the municipal plant for the service, $15,000.

LOS ANGELES, CAL.—The Los Angeles Gas & Electric Corporation has prepared plans for a 100 x 73-ft. addition at the rear of the electric generating plant at South Alameda St., of concrete foundation, steel frame, and corrugated steel walls. It will be used as a boiler room and generating plant. Estimated cost, $12,000. Emanuel R. Northmore is Supt.

LOS ANGELES, CAL.—The WESTERN BOILER WORKS, 2657 Humboldt St., has secured a contract from the Los Angeles Gas & Electric Corporation for the construction of overflow piping, at $5,200.

REDDING, CAL.—The Northern California Power Co. will commence work at once on the construction of its Coleman plant. Contracts have been awarded to the ALLIS-CHALMERS CO., of Milwaukee, Wis., for hydraulic turbines, and all the electrical machinery and equipment for the plant, consisting of three 700-HP., single horizontal turbines; three 5,000-KW. generators, and two 250-HP., single-phase exciter turbines. The turbo-generators will operate under a head of 480 ft., from two pipe lines 3,400 ft. long and 6-ft. in diameter. The voltage will be stepped up from 6,600 volts to 66,000 volts. The four plants of the company in the different Battle Creek sections are all interconnected with the present transmission line in Chico. Another line is being erected from Coleman, on the south side of the Sacramento River, to Hamilton City, where it will connect with a branch line from Hamilton with Chico, at Nord.

PHOENIX, ARIZ.—Los Angeles and Eastern capitalists have organized a company to construct a large dam at Striped Canyon, near the confluence of Big Sandy and Santa Mario Creeks. It is estimated that 3,000 HP. can be developed. which will be transmitted to the various mining camps in Mohave and Yuma Counties. Estimated cost, $2,000,000.

MURRAY, UTAH.—The Council has received the report of G. T. Ingersol, Engr., of Salt Lake City, Utah, for the construction of a water-power development. He estimates the cost at $51,255. A turbine pump will be used.

GRANGEVILLE, IDAHO.—The Big Bend Electric Light & Power Co., which recently purchased the plant of the Grangeville Light & Power Co., took possession on June 1. The new company will make improvements and extensions to the plant within 90 days. Estimated cost, $50,000. The service will also be extended to Cottonwood, Eugene Enloe, of Sphoken, Wash., Mgr.

WATERVILLE, QUE.—Bids will be asked in about two months for the electrical equipment for the water power plant to be constructed here. The dam is to be constructed by day labor. Estimated cost, $35,000. Fred. C. Davis is Consult. Engr.

SAN SEBASTIAN (JALISCO), MEX.—The Tajo Mining Co. has ordered the machinery for a hydroelectric plant which it will install at its mines near San Sebastian for the purpose of operating its reduction mill and other machinery.

CULIACAN (Sinaloa), MEX.—If a deal which is now pending for the sale of the San Fernando mines in the Juarez District, State of Durango, to a syndicate of Americans by John T. Canfield, of Culiacan, is consummated, it is reported that the hydroelectric plant that was erected on the Haymaya River and the electric railway, ten miles long, that was constructed at the mines by the San Fernando Mining Co. several years ago at a cost of about $1,500,000, will be rehabilitated and again placed in regular operation. These mines were abandoned by the company about the time the ore body in the mines became exhausted. The property passed into the hands of Mr. Canfield and further explorations revealed other ore resources. The mill and other machinery upon the property was dismantled and sold.

PACHUA (Hidalgo), MEX.—The property of the Compania Electrica & Irrigadora in the State of Hidalgo has been transferred to the Mexico Light & Power Co., which will connect the Pachuca plant with its transmission line now being erected from the Necaxa hydroelectric plant to the Pachuca mining district.

GUANAJUATO, MEX.—The Guanajuato Power & Electric Co., which is constructing an 87-mile transmission line to San Luis Potosi will install a substation near the mining camp of San Felipe, where a contract for power has been made with the Providencia Mining Co. The double-circuit towers, six wires to the tower, are now being installed for this line. It is expected that the line will be finished by September 1. It will give the company a total of 188 miles of transmission lines from its Zamora hydro-electric plant. Transmission lines will also be built to the San Pedro mining district, state of San Luis Potosi, and to the Pinos district, state of Zacatocas.

BRIDGES.

(* *denotes that this work is advertised in Engineering News.*)

SOLON, ME.—A new bridge will be built across the Kennebec River at Embden and Solon. The work is to begin at once. At recent meetings held by the two towns it was voted to raise the necessary amount of money to construct the bridge, which is for each town about $5,000 to $8,000. At the last Legislature a bill was passed, appropriating $20,000 for the building of this bridge. It is estimated that it will cost about $30,000 to build the bridge. E. E. Greenwood, Engr., has been engaged to make the surveys and engineer the work of putting up the bridge. The bridge is to be located about a mile below Solon village.

KEENE, N. H.—Contract for the bridge to be built across Ash Swamp Brook has been awarded by the Bridge Committee of the City Councils to the CANTON BRIDGE CO., of Albany, N. Y. The bridge is to be 92 ft. long with a clear roadway of 25 ft. A 5-ft. sidewalk will be built on each side.

PAWTUCKET, R. I.—See item under Water Supply—Irrigation.

NEW YORK, N. Y.—Bids were received as follows on June 16 by Kingsley L. Martin, Comr. of Bridges for the painting platforms and runways for the Queensboro bridge: Terry & Tench, Lexington Ave. and 131st St., New York, $18,030; J. H. Gray & Co., $21,948; Charles Meade Co., $27,140; Snare & Triest, $18,550; N. E. Construction Co., $19,700; Vulcan Rail & Construction Co., $24,985; Alamo Construction Co., $18,900.

NEW YORK, N. Y.—Bids were received as follows on June 16 by Kingsley L. Martin, Comr. of Bridges, for furnishing and delivering spruce plank to the Brooklyn bridge: Johnson Bros., Inc., 45 Classon Ave., Brooklyn, $13,245; East River Mill & Lumber Co., $13,420; William P. Youngs & Bros., $16,000; Arthur C. Jacobson, $14,873; Brooklyn Lumber Co., $13,400.

SYRACUSE, N. Y.—The NATIONAL CONSTRUCTION CO., of Syracuse, has been awarded contract, at $5,057, for the construction of a steel plate girder bridge here.

JAMESTOWN, N. Y.—MAHONEY & SWANSON have been awarded contract, at $50,000, for the construction of the concrete bridges over the Chadakoin River at Fairmount Ave. and Windsor St.

PHILADELPHIA, PA—RICHARD WALSH, 5922 Tacony St., Philadelphia, has received contract, at $35,479, for the construction of a highway bridge on line of Fox St., over P., G. & N. R. R. The work includes concrete abutments and piers, steel beam floor encased in concrete, concrete parapets, granolithic sidewalks and asphalt driveway.

PITTSBURG, PA.—The Pennsylvania R. R., the New York Central interests and the Monongahela Road, owned by the Jones & Laughlin steel interests, have combined in the erection of a bridge across the Monongahela River, above Pittsburg, Estimated cost, $1,000,000.

WILMINGTON, DEL.—H. M. LOCKWOOD, of Middletown, has secured contract for building a concrete bridge at Noxentown mill dam, in St. George's Hundred, at $3,160.

BALTIMORE, MD.—We are officially advised that bids will be opened about July 21 by the Harbor Board for a rib arch bridge, pile and concrete foundation, 90-ft. wide, to be constructed over Jones' Falls at Pratt St. O. F. Lackey is Harbor Engr. Noted on June 9.

WASHINGTON, D. C.—Bids are asked until 2 p. m., June 27, by the District Commissioners for constructing a concrete and rubble arch bridge on the line of Beach driveway, Rock Creek, above Military Road.

GRAHAM, VA.—The Graham Electric Ry. Co., James F. Dudley, Pres., will construct a bridge across the Bluestone River.

PICKENS, S. C.—Pickens County will construct two concrete piers and an 80-ft. steel span at Maw bridge site, two miles from Central, S. C. Bids are asked until June 24. E. F. Looper is County Superv.

TAMPA, FLA.—The Hillsboro County Commissioners will construct a bridge across Turtle Creek.

DECATUR, ALA.—The Louisville & Nashville R. R. Co., W. H. Courtenay, Ch. Engr., Louisville, Ky., will, it is reported, construct a bridge across the Tennessee River.

MIFFLIN, ALA.—The Baldwin County Commissioners, Bay Minette, Ala., are considering the construction of a bridge over Mifflin Creek.

WEST POINT, MISS.—Clay County will construct a trestle about 200 ft. long on the west side of Houlka Drainage Canal. Bids are asked until July 5. L. J. Howard is Clk.

NATCHEZ, MISS.—The Adams County Supervisors, Natchez, and the Jefferson County Supervisors, Fayette, Miss., are considering the construction of a bridge across Fairchilds River.

SUMMIT, MISS.—The Summit & McComb Motor Line, Fred Blackmore, Pres., will construct four bridges at various points in Summit and McComb, Miss.

CINCINNATI, OHIO.—See item under Streets and Roads.

HAMILTON, OHIO.—Bids are asked until 10 a. m., June 25, by the Board of County Commissioners for the partial repair of the superstructure of the Woodsdale bridge over the Mississippi River. J. E. Brate is County Audr.

CLEVELAND, OHIO.—The city will probably have to advertise for bids on the contract for the reconstruction of the piers of Central viaduct. There is only $25,000 on hand for the work and the single bid submitted on June 13, the day set for the opening of bids, amounted to $30,960. The Fath Construction Co. put in the bid.

CLEVELAND, OHIO.—Bids are asked by the Cuyahoga County Commissioners until 11 a. m., July 13, for the construction of bridge work. F. R. Lander is County Surv.

CANTON, OHIO.—The lowest bid submitted to the city on June 10 for the construction of the Shriver's Run culvert from Liberty St. to East Creek was that of P. Hahn & Son, of Canton, at $24,138. Other bids were: W. H. Ralston,, Mount Vernon, $43,580; Downs & Burd, Canton, $30,547; Turnbull & Son, Canton, $25,518; Wise, Smith & Krabill, Canton, $24,215.

DAYTON, OHIO.—Contract has been awarded by the Cincinnati, Hamilton & Dayton Ry. Co. to JONES BROS. for the masonry for the new bridge which the road will erect north of Dayton, at $60,000. The bridge will be of steel, set on concrete pillars. The AMERICAN BRIDGE CO., 30 Church St., New York, has the contract for the steel work. The total cost of the structure will be $160,000.

ST. CLAIRSVILLE, OHIO.—Bids will be received by E. E. Shepherd, County Audr., Belmont County, until June 27 for the necessary labor and materials for rebuilding and reinforcing the abutments of a bridge over Short Creek in Pease Township. At the same time bids will be received for the construction of a bridge at Barton, in Colerain Township according to the plans and specifications on file in the office of the County Engineer.

COLUMBUS, OHIO.—Bids will be received at the office of the County Commissioners of Franklin County until July 14 for the following work: Engineer's estimate No. 96, constructing the substructure of the Grant Run bridge on the Jackson Pike in Jackson Township; engineer's estimate No. 98, constructing the roadway of the bridge over Grant Run in Jackson Township; engineer's estimate No. 99, constructing the approaches to the Grant Run bridge in Jackson Township.

LAWRENCEBURG, IND.—Bids are asked until noon, July 5, by the County Commissioners for the construction of a bridge over Hogan Creek. W. S. Fagaly is Audr. Dearborn County.

EVANSVILLE, IND.—Bids are asked until 10 a. m., June 30, by the Vanderburgh County Commissioners for two reinforced-concrete bridges. Harry Stinson is County Audr.

RICHMOND, IND.—The Commissioners of Wayne County will receive bids until noon, July 5, for the erection of a concrete arch bridge and fills in Clay Township, known as the Cook bridge; a steel span bridge and fills, known as the White bridge in Franklin Township; and a concrete pier bridge, known as the Thompson bridge in Boston Township; also for the construction of two concrete culverts and the repair of two bridges. Demas S. Coe is County Audr.

TREMONT, ILL.—Contract for the erection of a large steel bridge over the Mackinaw River was awarded on June 7 to EDWARD COONEY, of Tremont, the lowest bidder. This bridge is to be built over the Mackinaw River on the highway leading from Tremont to Hopedale, and on the line between Hopedale and Dillon Townships. The bridge will be a single span of 186 ft., with concrete abutments and will be 25 ft. above the bed of the Mackinaw River. The contract price is $7,988.

APPLETON, WIS.—Bids are asked until 2.30 p. m., June 24, by the Board of Public Works for increasing the width of the roadway on Lake St. drawbridge over the United States Government canal.

MINNEAPOLIS, KAN.—We are officially advised that all bids received on June 15, by the County Clerk, Minneapolis, for four bridges consisting of one 150-ft. steel span with a concrete floor on concrete abutments, and two 60-ft. and one 30-ft. reinforced-concrete bridges have been rejected. Concrete bridges will be built by day labor. W. S. Gearhart is Highway Engr., Manhattan, Kan.

SCHUYLER, NEB.—Bids are asked until noon, June 27, by the Board of County Commissioners, for furnishing necessary labor and material for the construction of a wagon bridge over the Platte River near here. M. F. Shonka is County Clk.

MARYVILLE, MO.—THE STANDARD BRIDGE CO., Omaha, Neb., has received contract for building and repairing 45 bridges, at $15,000. Bids were opened on June 8.

ST. JOSEPH, MO.—Bids are asked until June 28, by L. M. Stallard, Highway Engr., for Contracts No. 149, 150, 151, 152, for concrete culverts, and contract Nos. 157 and 158 for bridge repairs.

FARMINGTON, MO.—The STUPP BROS. BRIDGE & IRON CO., St. Louis, Mo., has received contract, at $16,935, and VINCENNES BRIDGE CO., Vincennes, Ind., at $2,696, for the construction of the following bridges: One span over Big River of 230 ft. and 390 ft. steel trestle; one span 100 ft. across Doe Run Creek; one span 100 ft. across St. Francis River, and two spans of 26 ft. each across Indian Creek. Bids were opened on June 7.

*FORT SMITH, ARK.—Bids for the substructure and erection of the superstructure; the superstructure delivered and erected of a bridge over the Arkansas River, between Fort Smith and Van Buren, Ark., were opened on June 13 by the Fort Smith & Van Buren District. The bridge consists of nine 196-ft. spans carrying double track electric railway and a single track railway on a paved roadway between trusses, two paved roadways, and two sidewalks on cantilevers outside trusses. Piers and abutments will be sunk by the pneumatic process. Steel, about 4,000 tons. Masonry, about 10,000 cu. yds. The bids follow: Substructure—Union Bridge & Construction Co., $159,616; Pneumatic Caisson Co. and Carlin Construction Co., $292,530; Foundation Co., $179,391; Arkansas Bridge Co., $179,391; KAHNMANN & McMURRAY, $148,210 (awarded contract); John Monks & Sons, $193,975; Midland Bridge Co. $172,826. Foundation and erection of superstructure—Union Bridge & Construction Co., $302,165; Pneumatic Caisson

Co. and Carlin Construction Co., $445,940; Midland Bridge Co., $336,752. Superstructure delivered — McClintic-Marshall Construction Co., $296,962; Pennsylvania Steel Co., $300,656; Pneumatic Caisson Co. and Carlin Construction Co., $350,330; Penn Bridge Co., $308,086. Superstructure delivered and erected—McClintic-Marshall Construction Co., $436,537; Pennsylvania Bridge Co., $442,286; Penn Bridge Co., $499,181; ARKANSAS BRIDGE CO., Fort Smith, $415,194 (awarded contract); Midland Bridge Co., $486,256; Penn Bridge Co., $505,426; Strobel Steel & Construction Co., $507,222.

DALLAS, TEX.—The Dallas County Commissioners ordered plans and specifications on June 7 for drawbridges and approaches to cost $77,000, apportioned as follows: Hutchins bridge and approach, $32,000; Wilmer, $25,000, and Molloy, $20,000. J. T. Witt is County Engr.

FORT SILL, OKLA.—The El Paso Bridge Co., El Paso, Tex., is the lowest bidder at $8,650 for the construction of a 150-ft. steel bridge across Cache Creek. Capt. David L. Stone is Constructing Q. M., U. S. A.

PUEBLO, COLO.—G. A. McKENZIE, of Canon City, has secured contract, at $3,500, for the construction of two bridges over Beaver and Four Mile Creeks.

SAN JOSE, CAL.—Bids are asked until 11 a. m., June 27, by J. G. McMillan, County Surv., for the construction of a reinforced-concrete bridge on Almaden road over Guadaltipe Creek, about three miles south of San Jose.

SAN LUIS OBISPO, CAL.—Bids are asked until 10 a. m., July 6, by the Board of Supervisors for the construction of a steel concrete highway bridge across the Saline River at Rector Crossing on the Santa Margarita and Pose Road. H. H. Carpenter is Clk. Bd.

SANTA BARBARA, CAL.—F. F. Flourney, County Surv., has completed plans for a steel and concrete bridge to span the Santa Ynez River at San Lucas. The plans have been adopted by the County Board of Supervisors and bids for the construction will be taken before July 1.

LOS ANGELES, CAL.—The Board of Supervisors will receive sealed bids until 2 p. m., July 5, for furnishing all labor and materials necessary for the construction of a concrete culvert across Walnut St. on Valley Center Ave., in Glendora and San Jose Road districts. C. G. Keyes is County Clk.

BRIDGE CONSTRUCTION.—A report from an American diplomatic officer states that a bill was introduced into the senate of a Latin-American country providing for the construction of a bridge between two points on the coast; the bridge to be of steel and high enough to permit large vessels to pass underneath. To provide funds for the construction of the bridge the President is to be authorized to dispose of state lands, where a modern suburb, with city hall, public school, fire department station, hospital, etc., is to be constructed at the expense of the concessionaire. If the bill passes, work must begin in six months, the bridge must be completed in four years, and the whole concession is to revert to the state after fifty years. Materials are to be admitted free of duty. For addresses and other information refer to file No. 5045, Bureau of Manufactures, Dept. Commerce and Labor, Washington, D. C.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—Workmen are engaged in tearing down the structures at 915-921 Boylston St. to make room for the proposed 4-story building to be erected there for the Boston branch of the E. R. Thomas Motor Co., of Buffalo. The new structure will be four stories high and will cover an area of about 6,000 sq. ft., having a frontage of 50 ft. on Boylston St. and will extend back 112 ft. to a public passage in the rear, thus giving two separate entrances for the cars. The rear wall is to have an offset under the first floor, allowing easy egress and ingress. The exterior construction is designed in the modern French gothic style, and shows a facade of white matt glazed terra cotta, and large steel bays divided into show windows. The first floor will be occupied as show rooms, executive offices, dressing rooms, etc. This story will be 18 ft. 4 ins. high; will have in the rear part a mezzanine story, which space will be used by the clerical force. The floor of this show room will be a parquetry so designed as to harmonize with a wall dado reaching to the height of the mezzanine floor. Charles L. Henshaw is Local Mgr.

CHESHIRE, CONN.—We are officially advised that 13 fireproof buildings of brick, concrete and steel construction will be built here at the proposed state reformatory. The buildings will cover a combined area of about 65,000 sq. ft., and will be one story high, except one structure, which will have four stories. There will be no power plant. The total cost of the buildings will approximate $300,000, and the equipment, $50,000. William D. Johnson, 26 State St., Hartford, is Arch. Bids will be received about July 1. Noted on June 9.

HARTFORD, CONN.—Bids for the construction of a fire engine house on Windsor Ave. will be received by the Board of Contract and Supply until 11 a. m., June 27. Russell F. Barker, is Arch., 49 Pearl St.

JAMESTOWN, N. Y.—Charles Samuel will erect an 8-story and basement hotel, 120 × 140 ft., of structural steel, brick and terra cotta, to be called the New Sherman House. Estimated cost, $325,000. Esenwein & Johnson, are Archs., 777 Ellicott Square Bldg., Buffalo, N. Y.

NEW YORK, N. Y.—We are officially advised that plans have been filed for a 12-story limestone, brick and terra-cotta loft building to be erected on the south side of 25th St., 100 ft. east of Sixth Ave., for the Alcourt Realty Co., at a cost of $350,000. The building will have a frontage of 96.6 ft. and a depth of 83.9 ft., with an extension 57 × 10 ft. The facade will be of brick with trimmings of limestone and terra cotta, and will be of fireproof construction. George and Edward Blum, 505 Fifth Ave., are Archs. Estimates are being taken. Noted last week.

Plans have been filed with the Buildings Superintendent for a 6-story apartment house to be erected on the south side of 47th St., 325 ft. west of Sixth Ave., with accommodations for 25 families. The building will have a facade of brick with limestone and terra cotta trimmings, with a frontage of 37.6 ft. and a depth of 87.5 ft. The Olympia Realty & Construction Co., is the owner; George and Edward Blum, Archs., 505 Fifth Ave. Estimated cost, $75,000.

Substitute plans have been filed by W. L. Rouse & L. A. Goldstone, Archs., 12 East 32d St., for the $600,000 12-story store and loft building to be erected at 13 to 21 East 22d St. by the Flemish Realty Co.

An apartment house to cost $2,000,000 will be erected on Park Ave., between 82d and 83d Sts., by the Dudley Construction Co. Isaac N. Phelps Stokes, Harold Stokes and Dr. B. Farquhar Curtis, are interested.

NEW YORK, N. Y.—Plans are practically completed for the erection of a $4,000,000 hotel on the east side of Broadway that will occupy the whole of the block front from 33d to 34th Sts. This property is owned by the McAlpin Estate. Charles P. Taft is the head of the Greeley Square Hotel Co., of New York, a corporation capitalized at $7,100,000, which has filed papers of incorporation at Albany. Among the directors of the company are: Frank M. Andrews, Arch., Waldorf-Astoria Hotel, who is drawing the plans for the hotel; Louis J. Horowitz, Walter D. Marlow, promoter of the project; William A. Ulman, Edward L. Young, Archibald A. White, of Cincinnati; Benjamin B. McAlpin and Charles A. B. Pratt. The hotel is to have an auditorium for public gatherings, which will be on the top floor. It is probable that the 19th, 20th and 21st floors will be maintained exclusively as bachelor quarters. The basement will be used for a rathskellar, covering the entire area of the plot, which has a Broadway frontage of 144.4 ft., 62.9 ft. on Sixth Ave., 123.5 ft. in 33d St. and 150 ft. on 34th St.

Plans for a 16-story office building to be erected on the northeast corner of John and Dutch Sts., to take the place of several buildings formerly occupied as a perfumery factory by Colgate & Co., have been filed with the Building Superintendent. The architects place the cost at $425,000. The building will be of brick, with limestone and terra cotta trimmings and a terra cotta tiled mansard roof. There will be ornamentations on the fourth floor, the exact design of which not yet has been decided, and the John and Dutch street fronts will be faced with twelve Corinthian columns. The structure will be fireproof, will have four elevators and will be known as the Hilliard Building. The Underwriters Building Co. is the owner and the land is owned by the Collegiate Reformed Dutch Church.

Gronenberg & Leuchtag, Archs., 3 West 22d St., have filed plans for erecting two 6-story apartments and stores at the northwest corner of Amsterdam Ave. and 169th St., with a frontage of 50 ft. on the avenue and 88.7 ft. on the street, each building having accommodations for 25 families. The H. G. Realty Co., H. Guttman, Pres., is the owner, and the cost is placed at $125,000.

Plans have also been filed for building a 6-story brick apartment and store at the northeast corner of Terrace View Ave. and Kingsbridge Ave. The facade will be of brick with limestone trimmings, and will be of fireproof construction. There will be accommodations for 42 families. The Hudson Terrace Realty Co., J. V. Signell, Pres., is the owner. George F. Pelham, 507 Fifth Ave., is Arch. Cost, $110,000.

NEW YORK, N. Y.—Plans have been filed for building a 2-story brick fireproof garage at 513 to 523 West 24th St., at a cost of $55,000. The building will have a frontage of 150 ft. and a depth of 88.9 ft., with an extension. Charles De Rham, of Phillipstown, N. Y., and H. Casimir De Rahm, of Tuxedo, N. Y., are the owners. Robert D. Kohn is Arch., 170 Fifth Ave.

Demolition of St. Thomas's Church and rectory, at 53d St. and Fifth Ave., preparatory to the erection of a new church, which will cost $1,000,000, has been started. The work is being done by NORCROSS BROS., successful bidders for the construction, which will go ahead as soon as the present buildings are removed. The church will be erected in three sections, so as to provide a temporary place of worship for the congregation. It is expected that it will be three years before it is completed. The recent acquisition of the residence of the late Theodore B. Starr, at 3 West 53d St. increased the size of the plot, so that the new building and parish house will have a frontage of 100 ft. on Fifth Ave. and 235 ft. on 53d St. The plans, prepared by Cram, Goodhue & Ferguson, Archs., 170 Fifth Ave., indicate that the church proper will be 108 ft. in height, with a tower at the corner approximately 160 ft. above the curb level. There will be pews seating about 1,600 persons. The inside height of the church will be 87 ft. from the grade floor to the top of the vault. The exterior will be finished in Kentucky limestone of a light shade, and the interior with the same class of stone of a slightly darker shade. The Rev. Dr. Ernest M. Stires, Rector, is Chn. of the Plan and Scope Com.

Plans have also been filed for making alterations to the two 11-story apartment houses on the west side of Broadway, from 108th to 109th St., which consist of removing the first story front wall for store fronts and changing the interior of the first floor for this improvement, at a total cost of $62,000. The Realty Assets Co. is the owner. Clarence S. Shumway is Arch.

NEW YORK.—The following New York state items appear in the Public Buildings now before the House: $35,000 to increase the limit of cost of the post-office at Yonkers; $50,000 to enlarge the post-office and court building at Auburn; $80,000 for the post-office at Cortland; $75,000 for a post-office at Fulton; $75,000 for a post-office at Johnstown; $100,000 for a post-office at Mount Vernon; $80,000 for a post-office at North Tonawanda; $75,000 for a post-office at Oneonta; $100,000 for a site and post-office at Glens Falls; $125,000 for a site and post-office at New Rochelle; $125,000, an addition to $100,000 already appropriated, for a post-office site in The Bronx; $20,000 for a post-office site at Dunkirk; $10,000 for a post-office site at Gouverneur; $100,000, in addition to $225,000 before authorized, for a post-office site at Syracuse; $100,000 for a post-office site at Utica, and $11,000 for a post-office site at Waterloo.

The bill carries $540,000 for New Jersey, the largest amounts going to Jersey City, Orange and Long Branch, for post-office buildings.

The bill makes provision for plans for public buildings in Washington, where the Government now pays more than $500,000 in annual rentals to private property owners. It authorizes the preparation of designs and estimates for three new buildings on sites previously acquired—for the departments of State, Justice and Commerce and Labor—whose ultimate cost is limited to $8,000,000, and for a new city post-office building.

NEW YORK, N. Y.—Bids are asked until 10 a. m., July 1, by John W. Brannan, Pres. Bd. of Trustees, Bellevue and Allied Hospitals, for all the labor and material required for the erection and completion of an addition to the Pavilion for the Insane.

NEW YORK, N. Y.—Bids are asked by C. B. J. Snyder, Supt. School Bldgs., until 3 p. m., July 5, for the general construction, etc., of new Public School No. 95, on West Houston and Clarkson Sts., about 125 ft. east of Hudson St., Boro. of Manhattan. See also item under Light and Power Plants.

ALBANY, N. Y.—The State Prison to take the place of Sing Sing will be on a 500-acre tract 69 miles north of New York City, on the Harlem branch of the New York Central & Hudson River R. R., if the site which has been selected by the Commission on New Prisons and approved by the State Prison Commission, meets the approval of Governor Hughes. It will cost the State $50,000 and will be paid for out of an appropriation of $500,000 for the new prison made by the Legislature last year. Franklin P. Ware is State Arch., Albany, N. Y.

MIDDLETOWN, N. Y.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Middletown, N. Y., to RICHARD E. HENINGHAM, 1 Madison Ave., New York, at $65,307.

BUFFALO, N. Y.—Henry L. Spann, Arch., 38 Pascal St., has completed plans for the Majestic Theater to be erected at William and Sherman Sts. by Morris Slotkin, 537 William St. The building will be 81 × 100 ft., one story and of steel, brick and terra cotta construction. Estimated cost, $50,000.

Esenwein & Johnson, 777 Ellicott Square Bldg., are preparing plans for a 7-story and basement mercantile building, 86 × 110 ft., of brick and steel construction, for stores, offices and light manufacturing, to be erected at the northwest corner of Pearl and Huron Sts. by Keiser & Boasberg, 173 Elm St. Estimated cost, $100,000.

L. Becker & Sons will erect a 3-story and basement store, office and flat building, 52 × 88 ft., of brick and ornamental iron, at the corner of Jefferson and High Sts. Joseph A. Geigand is Arch., 435 Herman St.

Hardin H. Littel, 137 Summer St., will erect a 3-story and basement store and office building, 150 × 100 ft., at the corner of Franklin and Huron Sts. It will be of brick steel and terra cotta construction. Plans have been prepared by Esenwein & Johnson, Archs., 777 Ellicott Square Bldg. Estimated cost, $50,000.

CORNING, N. Y.—Plans for a Masonic temple to be erected at Erie Ave. and Chestnut St. have been completed by S. G. Tuthill, Arch. The building will be of steel, brick and terra cotta construction, 80 × 100 ft., two stories and basement, and will contain Masonic lodge rooms and a banquet hall. Estimated cost, $65,000.

ROME, N. Y.—The New York Central & Hudson River R. R. Co. is having plans prepared for a brick and granite passenger station, 50 × 150 ft., two stories, to be erected here at a cost of $50,000. George W. Kittredge is Ch. Engr., Grand Central Station, New York.

BAYONNE, N. J.—CRAMP & CO., 36 East 23d St., New York, and Commonwealth Bldg., Philadelphia, have been awarded a contract to erect a school building entirely of reinforced-concrete construction at Bayonne, for the Board of Education. It will be a 3-story structure, containing 25 classrooms, and will cost $111,600. The building will be located between West 23d and 24th Sts.

*GLEN GARDEN, N. J.—Bids will be received at the office of the New Jersey Sanatorium for Tuberculosis Diseases, Glen Gardner, N. J., until 7 p. m., July 7, for furnishing all materials and the construction of two open-air shacks. Dr. Samuel B. English is Supt.

ASBURY PARK, N. J.—Bids were received as follows on June 14 by James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the construction of a post-office at Asbury Park, N. J.: Thomas J. Buckley Construction Co., 103 Park Ave., New York, $84,037; P. J. Carlin Construction Co., 16 East 23d St., New York, $94,875; J. E. & A. L. Pennock, Land Title Bldg., Philadelphia, $79,877; Neptune B. Smyth, 1123 Broadway, New York, $87,774; Conroy Bros., 217 West 125th St., New York, $78,548; M. P. Wells, Witherspoon Bldg., Philadelphia, $84,330; Richard E. Henningham, 1 Madison Ave., New York, $87,300; Westchester Engineering Co., 39 East 42d St., New York, $81,639; William H. Fissell & Co., 1133 Broadway, New York, $78,100; William J. Moran & Co., 136 Broadway, Brooklyn, $87,069; Luke A. Burke & Co., 25 West 42d St., New York, $86,00[illegible] [illegible]ynd Bros., 30 Church St., New York, [illegible]00; Conners Bros. Co., Lowell, Mass., [illegible]00; A. E. Badgeley, Binghamton, N. Y., [illegible]00; Charles McCaul Co., Tenth and Sans[illegible] Sts., Philadelphia, $86,620; B. Ketcham [illegible] Son, 1029 Brown St., Philadelphia, $94,0[illegible]

GREENSBURG, PA.—Bids are a[illegible] by A. C. Shand, Ch. Engr., Pennsylvan[illegible] R. R. Co., Philadelphia, until June 27, [illegible] constructing a passenger station here.

PITTSBURG, PA.—John F. Swee[illegible] has let a contract to the MARTSOLF BRO[illegible] CO., 4 Smithfield St., to erect ten dwell[illegible] on Phillips and Shady Aves., Squirrel [illegible], to cost about $50,000.

PHILADELPHIA, PA.—E. F. Dur[illegible] & Son, Archs., 1200 Chestnut St., hav[illegible] been commissioned to plan a 3-story and [illegible]asement rectory and a 3-story and ba[illegible]ent parochial school for the Roman [illegible]olic Church of the Transfiguration, 55th [illegible] and Cedar Ave. The buildings will be o[illegible]ranite, fireproof construction and wi[illegible] cost about $100,000.

Henry E. DeHoff has plans in prep[illegible]tion for the completion of St. Anna's Pr[illegible]tant Episcopal Church, 56th St., above [illegible]ket St., and for a 2-story parish house ad[illegible]ning to cost a total of about $80,000. The [illegible]urch superstructure will be of stone, [illegible]ory, 50 × 137 and the parish house of sto[illegible] and brick, 40 × 80 ft.

BRYN MAWR, PA.—A $50,000 re[illegible]ence is to be built in Bryn Mawr, for Wil[illegible] E. Ellis, from plans by Wilson Eyre, [illegible]rch., 927 Chestnut St., Philadelphia. It w[illegible] be of stone and rough cast and will m[illegible]sure 110 × 40 ft., with a wing 19 × 37 ft. [illegible]ORRIS ROSSITER has the contract.

WASHINGTON, D. C.—See New York.

WASHINGTON, D. C.—An office building, to cost $250,000, is to be built by the C. C. Willard Estate, at 1320 and 1322 F St., N. W. The plans call for a building three stories high. The first floor will be occupied by mercantile establishments, while the two upper floors will be used by Government officials. The walls will be so strengthened as to allow the erection of from five to eight additional stories at some future time.

Final plans for the $1,000,000 office building to be erected at 15th and H Sts., N. W., on the site of old St. Matthew's Church, have been approved by the Southern Building Corporation and the work of construction will be commenced next week. James L. Karrick, Pres. of the corporation, has announced that the work will be rushed and it is expected to be completed and the building ready for occupancy by March 1 next. The building is to be eleven stories high instead of nine as originally planned. There will be more than 600 rooms. The structure is to have a court yard, which will be 4[illegible] ft. wide. The exterior of the building will be finished with a granite and marble effect. There will be five elevators. A private washroom will be provided for each office. The interior finish will be of marble, with oak trimmings and the newest invention for heating and ventilating is to be installed. The design for the building was drawn by D. H. Burnham & Co., Railway Exchange Bldg., Chicago. The construction work will be executed by the THOMPSON-STARRETT CO., Commonwealth National Bank Bldg., Washington, D. C.

CHARLOTTESVILLE, VA.—The Chesapeake & Ohio Ry. Co., which in 1907 bought several lots lying on the north side of its track between Second and Fourth Sts., East, is razing the buildings and will soon begin the erection of a freight depot, architecturally and in general arrangement similar to the freight depots in Richmond and at Newport News. The structure is to be of brick and stone, 300 ft. long by 50 ft. deep, will cover two full blocks and will be ready for occupancy by early fall. The office building will contain eight rooms. J. M. Staten is Gen. Inspector of Bldgs., Richmond, Va.

AUGUSTA, GA.—The Georgia & Florida Terminal Co. has applied for incorporation; capital $10,000, to provide terminals, warehouses, etc., for the Georgia & Florida Ry. Co. The incorporators are E. L. Bemiss, Vice-Pres. of the Georgia & Florida line; J. M. Turner, Gen. Mgr., both at Augusta; J. M. Wilkinson, Vice-Pres., Valdosta, Ga.; William H. Barrett and George R. Lombard.

MERIDIAN, MISS.—At a joint meeting of the Mayor and Aldermen and the Board of Councilmen held recently the issuance of $275,000 of bonds for public improvements was ordered. A $75,000 city hall is provided for, it being understood that the present city hall can be sold, the proceeds to be added to the building fund: $1,000 is to be expended for the improvement of public schools; $60,000 for drainage and sewerage; $15,000 for improvement of Highland Park.

MEMPHIS, TENN.—Joseph and Martin Isele are considering erection of fireproof hotel to cost $250,000 to $300,000.

COLUMBUS, OHIO.—The announcement is made that plans and specifications have been completed by Burnham & Co., Railway Exchange Bldg., Chicago, for the new terminal station for the Ohio Electric Railway Co. at Rich and Third Sts. The site has been cleared and the contract for the construction of the terminal will be awarded soon. The cost will be about $200,000. B. J. Jones, Springfield, Ohio, is Gen. Mgr.

Bids will be received until July 6 by W. J. Fleming, Clerk of the Bd. of Education of Perry Township, Franklin County, Station B., Columbus, for the necessary labor and materials for the erection of a school building in Sub-district No. 8. Wilbur T. Mills, Arch., 49 North High St., has prepared the plans and specifications for the structure.

WEST ALEXANDRIA, OHIO.—Henry Karg, of Columbus, Ohio, was the low bidder on the construction of the proposed school building. His bid was $52,000. The COLUMBUS HEATING & VENTILATING CO. has been awarded the contract for the heating equipment.

AKRON, OHIO.—The announcement is made that the Baltimore & Ohio R. R. Co. will increase the terminal facilities at Akon. The freight handling facilities will be increased. A. W. Thompson is Ch. Engr., Baltimore, Md.

INDIANAPOLIS, IND.—Bids are asked by the Board of Education until June 28 for constructing an addition to School No. 60, to cost $30,000. Foltz & Parker, Indiana Pythian Bldg., are Archs.

Bids are asked by the Board of Education until July 5 for constructing School No. 43, to cost $65,000. R. P. Daggett & Co., emcke Bldg., are Archs. John E. Cleland is Business Dir.

INDIANAPOLIS, IND.—The Building Committee of the Methodist Episcopal Hospital Association has adopted final plans made by Vonnegut & Bohn, Archs., Indiana Trust Bldg., for the construction of a pavilion to be connected by corridors to the present hospital building. The building will be four stories high, with a roof garden. The building will have a frontage of 98 ft. and 75 ft. deep and be fireproof. Estimated cost of building and equipment, $130,000. Bids will be in order soon.

MARION, IND.—As soon as plans can be made bids will be received by the Farmers' Trust Co. for the construction of a bank building at Washington and Fourth Sts. Burt L. French is Arch., Iroquois Bldg., Marion.

GARY IND.—Two more stories will be built on the Victoria Hotel, which is now four stories high. Adjoining it in Seventh Ave. will be the Victoria annex, the total cost to be $200,000. The hotel is owned by the Central Building Co., in which Gary, Indianapolis and Bluffton people have the controlling interest.

GREENCASTLE, IND.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has cancelled the award recently made to James M. Bishop, of Chicago, for the construction of the post-office at Greencastle, Ind., as the contractor refuses to sign the contract.

TERRE HAUTE, IND.—The School Board has received a number of plans from architects for the construction of a school building estimated to cost $75,000. Bids will be in order as soon as a set of plans are selected.

SOUTH BEND, IND.—The School Board is preparing to build a new high school building this summer.

*COLUMBUS, IND.—Bids were received as follows on June 20, by James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the construction of a post-office at Columbus, Ind.: Dunlop & Co.. Columbus, Ind., $58,147; M. Yeager & Sons, Danville, Ill., $64,975.

EVANSVILLE, IND.—Bids are asked by R. L. Harwood, Trustee of Union Township until July 5, at the office of Clifford Shopbell & Co., Archs., for the erection and completion of a concrete foundation for School No. 2.

DETROIT, MICH.—F. T. Barcroft, Ford Bldg., will take figures the last of June on a 2-story and basement store and office building, 200 × 158 ft., for Goldberg Bros., 225 Woodward Ave. Press and stock brick, Bedford stone, white enameled terra cotta, composition roofing, structural iron, hardwood finish, cement and wood floors and electric fixtures will be used in construction. Cost, $50,000.

ANN ARBOR, MICH.—Albert Kahn and E. Wilby, Trussed Concrete Bldg., Detroit, Mich., are preparing plans for a bank building for the Ann Arbor Savings Bank, Ann Arbor, Mich. Construction will be of stock brick, white oak finish, marble and mosaic.

CHICAGO, ILL.—We are officially advised that Le Verne W. Noyes plans the erection of two buildings, 250 × 160 ft., fireproof, at the southeast corner of 20th St. and Michigan Ave. He will tear down all the buildings now on the site, and the work on the new structures will be started as soon as possible. Contracts will be let within 30 days. The buildings will be ready for occupancy not later than Jan. 1, 1911. Plans are being prepared by A. S. Alshuler, Arch., 154 Munroe St. The cost of the buildings will be $250,000. The Central Realty & Investment Co. negotiated the purchase of the property and will supervise the construction and renting of the buildings and will act as agents for Mr. Noyes. Noted on June 9.

A theater, costing $100,000, will be erected on Lincoln Ave. at the southeast corner of Giddings St. on a lot 150 × 125 ft., bought by Jacob Lasker from Anna R. Ward. Mr. Lasker intends that the theater will be three stories in height, with a stone front and of steel construction. It will be capable of seating 1,000 persons and work will be commenced upon it as soon as the contracts are let.

The Chicago & Alton R. R. Co. has completed detailed plans for an improvement involving a total investment of about $1,000,000. Copies of the ordinance and maps vacating parts of Cable St., Stewart Ave. and Mather St., as authorized by the City Council in March, have been filed for record. The railroad also has filed a deed of dedication turning over to the city strips of land to be used for Stewart Ave. and for Ellsworth St., which will straighten these thoroughfares and make them more convenient for traffic. The land acquired will be used for the extension of terminal warehouses and an office building to be erected at 2 West Van Buren St. W. D. Taylor is Ch. Engr., Chicago.

MARSHFIELD, WIS.—The WEINBERG CONSTRUCTION CO., of Grand Rapids, Wis., has been awarded the contract for building the asylum to be built in this city at $107,990. The other bids received were: Andrea & Co., Wausau, Wis., $108,372; Wisconsin Construction Co., Chippewa Falls, Wis., $111,229; A. B. Bancroft, Oshkosh, Wis., $129,951. Plumbing and heating contracts have not been awarded.

FOND DU LAC, WIS.—At a recent meeting of Committee on Buildings and Grounds of the Board of School Commissioners the contract for remodeling the old high school and erecting the new building was awarded to the HUTTER CONSTRUCTION CO., of this city, at $59,986. This contract does not include the heating and plumbing contract which will be awarded at a later date.

MILWAUKEE, WIS.—Brust & Philipp, Archs., 82 Wisconsin St., are taking figures on a garage to be erected on Wisconsin St. between Van Buren and Jackson Sts. by the Buick Motor Co. The building will be 50 × 120 ft., of reinforced concrete and brick, three stories. Cost, $40,000.

ST. PAUL, MINN.—Bids will be received until 11 a. m., June 27, at the Mayor's office, for the construction of the Richards Gordon grade school. It will be of pressed brick and cut stone, fireproof. H. P. Keller, is Mayor. A. F. Gauger, 302 Scandanavian American Bank Bldg., is Arch. Cost, $45,000.

Bids are asked by the State Board of Control, Charles Halverson, Chn., until 2 p. m., June 27, for the construction of a fireproof ladies' dormitory at the State Agricultural College here. C. H. Johnson, is Arch., Manhattan Block. It will be 3-stories high, of pressed brick and cut stone construction. Appropriation, $50,000.

Bids are being received by the Tri-State Telephone & Telegraph Co., E. H. Moulton, Vice-Pres., for the construction of an addition to the main exchange at Ninth and Cedar Sts., according to plans of Buechner & Orth, Archs., Manhattan Block. Cost, $45,000.

DULUTH, MINN.—Bids are being received by the Sisters of St. Joseph here for the construction of a 4-story pressed brick and cut stone, fireproof hospital addition to St. Joseph's Hospital. Ellerbe & Round, St. Paul, Minn., are Archs. Cost, $60,000.

FREMONT, NEB.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Freemont, Neb., to the NORTHWESTERN CONSTRUCTION CO., of Wahpeton, N. Dak., at $46,809.

FORT CROCKETT (Galveston post-office), TEX.—We are officially advised that Capt. P. Whitworth, Constr. Q. M., in charge of the construction of the barracks at Fort Crockett, has awarded contracts for additional buildings at the post aggregating an expenditure of $108,662. The buildings except the coal shed will be built of concrete, including one field officers' quarters, four double officers' quarters, one ordnance shop, one quartermaster workshop, one fire station, one forage storehouse, one oil storehouse and one coal shed. The contracts for the construction of the buildings were let to JAMES McGONIGLE & SON, of Leavenworth, Kan., for $92,990; for plumbing and heating, the GALVESTON GAS FITTING & PLUMBING CO., Galveston, $10,870; for electric wiring and fixtures, to MAX LEVY, of Galveston, at $4,802. The contract calls for the inauguration of construction not later than June 30 and the work must be completed within seven months from date of contract.

BROWNSVILLE, TEX.—We are officially advised that the plans of J. F. Walker and H. A. Reuter, of San Antonio, Tex., Archs., for the proposed hotel here to cost $350,000, have been approved by the local promoters of the project. A stock company is being organized to supervise the matter. Col. Uriah Lott and others are interested. The plans call for a reinforced-concrete building, 120 × 275 ft., of five stories and basement. Noted on June 9.

TULSA, OKLA.—The Pioneer Telephone Co. will erect a 5-story building at the corner of Fourth and Boston Aves. for its own use. The building will cost $100,000. The company will install full equipment when the building is finished.

SEATTLE, WASH.—A combined church and office building, costing $150,000, to replace the present Plymouth Congregational Church at Third Ave. and University St., is under discussion by the Board of Trustees. Plans have been prepared by Graham & Myers, Archs., Lowman Bldg.

BREMERTON, WASH.—A contract has been awarded to C. F. GRAFF, Central Bldg., Seattle, for building a general storehouse at the Puget Sound Navy Yard, at $252,361. The building will be four stories high and will have a deep basement.

LA GRANDE, ORE.—The School Board has awarded the contract for the new high school building to BARTLETT & ROTH, of Pullman, Wash., for $54,000. The contract for building the boiler house was let to BARTLETT & ROTH at an additional cost of $2,100.

PORTLAND, ORE.—C. K. Henry, 250 Stark St., is interested in a project to construct a 26-story building. Preliminary plans are being drawn by Gibson & Cahill. The building will cost $1,000,000.

PORTLAND, ORE.—Fred A. Jacobs, real estate operator, has announced plans for an office building to be erected on the quarter-block at the southwest corner of Seventh and Yamhill Sts., as soon as he can get possession of the land. The plans call for a building of steel frame faced with buff-colored brick and a lighter shade of buff terra cotta. There will be 23 offices on each floor. while the first floor is arranged for stores. All the corridors in the interior will be tiled and wainscoted with marble. The floors will be of concrete laid on hollow tiling, and the building will be further fireproofed by non-combustible partitions. The front offices will be larger than those in the rear. The cost is estimated at between $450,000 and $500,000.

LOS ANGELES, CAL.—Plans for a proposed city hall to be erected on the site of the Temple Block, recently purchased by the city for that purpose, have been submitted to the North, Northeast and Northwest Improvement Association at its meeting in the Chamber of Commerce by Neher & Skilling, Pacific Electric Bldg. The plans call for an office building, following in this respect the new municipal building in New York and the proposed structure in San Francisco. The building is to be in the form of a letter A and of eleven stories, with a basement and sub-basement. The first, second and third stories are each to have 17,800 ft. of floor space, and those above 16,300 sq. ft. The cost will be practically $1,000,000. The plans, complete, were approved by the association, and a committee consisting of Joseph Mesmer, Frank M. Coulter and J. M. S. Schneider was appointed to urge upon the City Council their favorable consideration.

Morgan, Walls & Morgan, Archs., Story Bldg., have prepared tentative designs for a $1,000,000 fireproof office building to be erected at the southeast corner of Spring and Seventh Sts. for Mr. I. N. Van Nuys.

H. M. Patterson, Arch., O. T. Johnson Bldg., has awarded contract to J. GRISENTHWAITE for excavating the lot at the southeast corner of Second and Flower Sts. for a 5-story and basement Class B apartment house, 60 × 86 ft.

W. J. Saunders, Wright & Callender Bldg., has prepared plans for a 3-story and basement Class A reinforced-concrete building to be erected on Stephenson Ave. for the Braun Chemical Co., Henry Blumenberg Secy. It will be 100 × 100 ft., with fire doors and shutters, two elevators, enclosed stairways with fire doors, sprinkling system, plumbing and electric wiring.

A. S. Haley, Citizens National Bank Bldg., is preparing plans for a 3-story brick building, 50 × 155 ft., to be erected on East Fifth St. for the Dodge Estate. It will have a pressed brick exterior. The main floor will contain a moving picture theater and a storeroom. Estimated cost, $50,000.

*SANTA CRUZ, CAL.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Aug. 1, for the construction (including plumbing, gas piping, heating apparatus, and electric conduits and wiring) of the U. S. post-office at Santa Cruz, Cal.

LONG BEACH, CAL.—A. B. Sturges, National Bank Bldg., Long Beach, Cal., has been chosen Arch. and Supt. of Constr. for the $100,000 polytechnic high school to be erected in Long Beach. Plans ready for contractors in about a month.

SANTA MONICA, CAL.—HARRY X. GOETZ, 1043 Third St., has been awarded the contract for the erection of the country club building at $75,000.

OAKLAND, CAL.—We are officially advised that Cumming & Weymouth, Archs. and Engrs., Macdonough Bldg., Oakland, are preparing plans and specifications for a 5-story loft building, to be constructed of either brick or concrete and terra cotta, at a cost of $70,000, in the south side of 14th St., between the properties now occupied by the First Methodist Church and the Eastern Outfitting Co. The proposed building will be owned by A. D. Wilson, Vice-Pres. of the Security Bank & Trust Co., and will be used for either business offices or by a large company. The ground floor is to be adaptable for use by a store, and the upper four stories will be lofts that can be used for either storehouses or business offices. The building will have a frontage of 50 ft. and a depth of 100 ft. The inside fittings and wood work will be of the best material and of the most modern design. It will be a steel frame structure and will contain passenger, freight and sidewalk elevators. The building will be of brick construction and Class C. Bids will be received in about 60 days.

Plans have been completed for the erection of a 4-story concrete building at 13th and Madison Sts., Oakland, that will cost $50,000 and will be occupied by the Engineering Department of the Polytechnic Business College. Work on the structure will be commenced within a few weeks and it will be ready for occupancy Jan. 1.

SAN JOSE, CAL.—William Binder, Rea Bldg., has awarded contract to L. O. FIELD for the construction of a 4-story reinforced-concrete hotel building for the Conservative Realty Co. The building is to be erected on San Antonio St. Cost, $150,000.

BERKELEY, CAL.—The Regents of the University of California, have arranged several Legislative appropriations, of which the $200,000 for the proposed Agriculture Building is one. The others are as follows: Chemistry Hall, $200,000; furnishing the new library, $200,000; purchase of watershed, $200,000; funds for library, to be drawn in 20 years, $100,000, deposited in ten annual installments, drawing compound interest. This total amount of $900,000 is to be spread over ten years by the Regents by being paid back in annual installments of $90,000 to the permanent improvement fund. In this way the whole amount, except nine installments of the library fund, becomes immediately available, permitting the immediate erection of the agricultural building and the succeeding erection of Chemistry Hall. The Agricultural Building will be located on the north side of the axis of the greater university, planned by M. Benard and modified by Prof. John Galen Howard, the University Superv. Arch. This brings it north of the projection of University Ave. into the campus on the knoll which is now used as an experimental garden. The building will be constructed of white marble like California Hall and with red tiled roof. An auditorium is provided for, located just inside the main entrance and semi-circular in form. A portion of the perimeter of the auditorium will project beyond the wall lines of the building, relieving the monotony of the regular rectangular plan. At a later date four smaller auxiliary buildings will be erected at the several corners of the parent structure for branches of the work of the college. Final plans have been signed by Dean E. J. Wickson and the surveyors have started to lay out the site.

SANTA BARBARA, CAL.—Frederick L. Roehrig, Arch., Byrne Bldg., Los Angeles, Cal., is preparing plans for two residences, garage, stables, paddock and servants quarters to be erected on the country estate of William H. Bartlett, of Chicago, at Santa Barbara. The building will be of frame construction, with cement plaster over metal lath. Each residence is to contain 14 rooms, finished in hard woods, with tile bath rooms. The contract for the landscaping has been awarded to JOSEPH J. WHIPPLE, of Santa Barbara, at $10,030. A complete water works system will be installed. Total cost, $100,000.

SALT LAKE CITY, UTAH.—The Fireproof Storage & Trust Co. has had plans drawn for a 4-story brick and steel warehouse to be erected at 128 Fourth West St., 100 × 150 ft., fireproof. Two concrete vaults, sprinkler system, and elevators will be installed. John S. Bennett, Secy.

WATER-SUPPLY—IRRIGATION.

(* *denotes that this work is advertised in Engineering News.*)

ATTLEBORO, MASS.—The Water Commissioners on June 10 awarded contract to BRUNO & PETITTI, 18 Tremont St., Boston, for the construction of the new reservoir at $48,460. Other bidders were: Joseph Long, $49,840; R. H. Newell, $49,870; Joseph E. Palmer, $51,280.

BOSTON, MASS.—Contract for the installation of condensers, etc., at the navy yard, Boston, has been awarded to JOHN W. DANFORTH CO., of Buffalo, N. Y., at $13,979.

PAWTUCKET, R. I.—The City Council has passed an ordinance providing for the issue of $125,000 of water-works bonds, $90,000 for sewers, $40,000 for public parks, and $125,000 for highway and bridges.

WATERBURY, CONN.—RYAN & UNMACK, of New Haven, Conn., have been awarded contract by the Board of Public Works for the construction of the Morris reservoir at $528,436. Bids were opened on June 7. List of bidders noted last week. R. A. Cairns is City Engr.

NEW YORK, N. Y.—Bids were received on June 15 by Henry S. Thompson, Comr. Water Supply, Gas and Electricity, for furnishing and delivering double-nozzle fire-hydrants: A. P. Smith Mfg. Co., Newark, N. J., $91,104; John Fox & Co., 253 Broadway, New York, $103,840; Kennedy Valve Mfg. Co., 57 Beekman St., New York, $96,859.

NEW YORK, N. Y.—Bids are asked until 2 p. m., July 6, by Henry S. Thompson, Comr. Water Supply, Gas and Electricity, for five portable meters such as can be inserted into any main through a 1-in. corporation cock and equipped with photo recording attachments.

BUFFALO, N. Y.—Bids for two tunnels to carry the outlet pipes from the new pumping station at the foot of Porter Ave. under the canal were opened on June 15 by F. G. Ward, Comr. Pub. Wks. Two bids were received as follows: Buffalo Dredging Co., excavating, per lin. ft., $110; lining, $40; excavating for shaft, $115; lining for shaft, $50. John F. Stabell, excavating, $110; lining, $61; excavating for shaft, $90; lining for shaft, $59.

BINGHAMTON, N. Y.—Clinton L. Bogert, New York, is preparing specifications for the reservoir to be built on Mount Prospect, at Mygatt St. Estimated cost, $125,000. Bids may be asked in September.

OLEAN, N. Y.—Bids will be received by the Board of Water Commissioners, Charles Keeman, Secy., until July 1 for trenching, laying and back-filling for constructing about 3,100 ft. 18-in. water lines.

PLAINFIELD, N. J.—Joseph H. Fuertes, 140 Nassau St., New York, will investigate and report to the Common Council on the advisability of purchasing, constructing or condemning water plant.

PITTSBURG, PA.—The Mayor has signed an ordinance providing for securing additional land for the extension of the city filtration plant at Aspinwall. N. S. Sprague is Supt. Bureau of Construction.

ALBION, PA.—Bids will be received until July 5 by S. A. Collins, Boro. Clk., for constructing a water system, consisting of 2,000,000-gallon reservoir and laying approximately 26,906 ft. of distribution mains and 25,465 ft. of supply pipes. Pipes, valves, hydrants and special castings are to be furnished by the city. Estimated cost, $28,000. Clyde C. Hill is Engr.

HARRISBURG, PA.—The city has applied to the State Water Commission for permission to construct a dam about four feet high across the river at the lower end of the city. M. B. Cowden is City Engr.

*TYRONE, PA.—We are officially advised that bids were received on June 10 by the Tyrone Gas & Water Co. for the construction of a storage reservoir; also for an addition to present reservoir No. 1. Contract has been awarded to the VIPOND CONSTRUCTION CO., of Altoona, Pa., at $100 per acre for clearing ground, 48 and 41 cts. per cu. yd. for embankment, $1 per cu. yd. for puddle wall, 41 cts. per sq. yd. for stone paving, $4.50 per cu. yd. for rubble masonry, $6.50 per cu. yd. for concrete masonry, and $7.50 for reinforced-concrete masonry. It is estimated that there will be about 160,000 cu. yds. of earth work, 2,000 cu. yds. of paving, masonry, etc., and 17 acres of grubbing and clearing, and 7,000 cu. yds. of puddle work.

BRISTOL, PA.—The Borough Council on June 13 approved the engineers' plans and detailed drawings for a complete municipal water and filtration plant, and instructed the Street Committee to forward certified copies to the State Department of Health at Harrisburg for approval. At a special election held recently a bond issue for $100,000 was authorized for a new plant.

BALTIMORE, MD.—Bids are asked by the Board of Awards until 11 a. m., June 29, at the office of J. T. Sewell Thomas, City Register, for furnishing and erecting pumping station for pipe line system on South St. near Pratt St.

WASHINGTON, D. C.—Bids are asked by the District Commissioners until 2 p. m. June 27, for furnishing water meters.

NORFOLK, VA.—The city will appropriate $17,000 for extensions of water mains in the Seventh Ward.

LOUISA, VA.—Bids are asked until July 2 by J. J. Porter, for boring 10-in. artesian well at this city for town and county purposes.

PETERSBURG, VA.—The city has appropriated $9,000 for an addition to the filter plant.

COLUMBIA, S. C.—The City Council has ordered the construction of a 9-in. water main in Huger St., between Gervais and Green Sts., to furnish water supply for Glencoe Mills. Estimated cost, $3,800.

DOUGLAS, GA.—The city will make improvements to the water-works, including the drilling of 8-in. well and will purchase and install machinery. R. W. Peatross is City Engr.

ATLANTA, GA.—See item under Sewers.

ST. AUGUSTINE, FLA.—A committee has been appointed to consider installing modern machinery in the water-works.

JACKSONVILLE, FLA.—The Board of Bond Trustees, A. F. Perry, Secy., has rejected bids for constructing the 3,000,000-gallon reservoir. Bids were opened on June 6. List of bidders noted last week. New bids will be asked. R. W. Ellis is Supt.

MONTGOMERY, ALA.—The city will construct a water standpipe at the river pumping station. W. F. Black is City Clk.

COLLINS, MISS.—The city contemplates the construction of 100,000-gallon reservoir at the water plant.

CLEVELAND, MISS.—The city has employed Xavier A. Kramer, Magnolia, Miss., to prepare plans for the proposed water-works. Estimated cost, $20,000.

McCOMB, MISS.—The Illinois Central R. R., A. S. Baldwin, Ch. Engr., Chicago, Ill., has purchased for $50,000 about 100 acres in the northern part of city in basin of stream as a site for reservoirs with an ultimate capacity of 1,000,000,000 gallons. The material from excavations will be used in constructing dam and the plans include the construction of concrete spillways to guard against floods, and installation of pumping plant, with pipe lines to distribute water to machine shops, roundhouse and other steam-using plants.

BRISTOL, TENN.—The cities of Bristol, Tenn., and Bristol, Va., are completing arrangements for the construction of the pipe line of sufficient capacity to deliver 1,500,000 gallons of water daily from Frank Preston spring, five miles from the city. R. L. BLEVINS, of Bristol, Tenn., has secured contract for the construction of the pipe line, including satisfactory intake, which may require building of dam or reservoir. Estimated total cost, $100,000.

AMHERST, OHIO.—The Aetna Engineering Bureau, 125 LaSalle St., Chicago, Ill., has been retained by the Amherst Water-Works Co., of Amherst, to design and superintend the construction of a water-works system. The improvement will cost about $50,000. Bids will be called for in about 30 days.

BATESVILLE, IND.—The BOURBON COPPER & BRASS WORKS, Cincinnati, Ohio, has secured contract at $3,130, for the extension of the water mains in this city.

*HAMMOND, IND.—We are officially advised that bids were received on June 15 by the Board of Public Works for the extension of the water supply intake in Lake Michigan, to include the furnishing and laying of approximately 3,000 lin. ft. of 42-in. c.-i. hub and spigot pipe weighing 450 lbs., per ft., furnishing and setting the strainer head at the outer end of said intake and connecting the inner end of said intake pipe line with the two present intakes by means of one branch of about 200 lin. ft. of 30-in. pipe weighing 250 lbs. per ft. and another branch of about 400 lin. ft. of 20-in. c.-i. hub and spigot pipe weighing 150 lbs. per ft., and to furnish all pipe fittings, lead, jute and other necessary materials and lay same in place complete and ready for use and make connections to present intake pipes without interruption of supply of water to pumping station. Contract has been awarded to the CALUMET CONSTRUCTION CO., 234 La Salle St., Chicago, Ill., at $47,140. The only other bidder was the Great Lakes Dredge & Dock Co., Chamber of Commerce, Chicago, at $47,990. J. H. Kasper is City Engr.

NEW BADEN, ILL.—FRED J. KOCH, of New Baden, has secured the contract for the tank and tower, and J. A. HARTMAN, of Olney, Ill., for pipe, about 2,700 ft. 8-in., 1,900 ft. 6-in. and 150 ft. 4-in. at 84, 62 and 45 cts. per ft., respectively.

*CARROLLTON, ILL.—Bids will be received by the Commissioners of the Eldred Drainage and Levee District, Carrollton, until 2 p. m., July 15, for furnishing and erecting a complete pumping plant, including sluiceways and foundations. The pumping plant will be used for the drainage of agricultural lands; and shall have a capacity of 120 cu. ft. per second against a maximum static head of 20 ft. The plant will consist of two centrifugal pumps, the larger connected to a tandem, compound, condensing, Corliss or 4-valve steam engine, and the smaller to a simple condensing, Corliss or 4-valve steam engine; two return tubular boilers for a working pressure of 125 lbs. per sq. in.; one small vertical auxiliary boiler for a working pressure of 100 lbs.; guyed steel stack; shaking grates; open feed water heater and electric lighting system. For further information, plans and specifications, address the Harman Engineering Co., 120 Fredonia Ave., Peoria.

ELLENSDALE, MINN.—Bids are asked until 8 p. m., June 28, by the Village Council for drilling a deep well for the village. C. R. Torgerson is Village Recdr.

DULUTH, MINN.—The Board of Water and Light Commissioners has let 25 contracts for 12,298 ft. of water and gas main extensions at an aggregate cost of $11,835. Twelve contracts were awarded to JOHNSON & JOHNSON. During the year the Board has ordered 48 extensions and 25 more petitions are being considered and it is probable that these extensions will also be ordered. Those authorized are of 6-in. water mains and 4-in. gas mains with the exception of Ninth Ave. east, where an 8-in. water main will be put in.

ENGLEWOOD, KAN.—The contract for engineering work in connection with the proposed water-works system for Englewood has been awarded to the J. S. WORLEY CO., Reliance Bldg., Kansas City, Mo., Engrs.

CANTON, KAN.—See item under Light and Power Plants.

HELENA, MONT.—Improvements will be made to the water-works at a cost of about $540,000. Charles W. Kelmick, of Helena, is Engr.

FORT MISSOULA, MONT.—We are officially advised that no bids were received by Maj. A. B. Shattuck, Constructing Q. M., U. S. A., on June 6, for a water distributing system, pumping station, boilers, pumps, valves, etc. Bids for 300,000-gallon steel tank and trestle were referred to the Quartermaster General, Washington.

MALDEN, MO.—The city proposes to construct a water-works and power plant. Estimated cost, $30,000. Bids will be asked soon for construction. Arthur Roehm & Co., of Malden, are Engrs.

LIBERTY, MO.—The city has voted $20,000 of water-works bonds.

EUREKA SPRING, ARK.—The city will spend about $50,000 in improvements to the water-works. W. H. Elliott is City Engr.

FORT SMITH, ARK.—Bids will be received until July 6 by Clerk Board of Public Affairs for constructing water main extensions. Separate bids will be received for pipes, specials, hydrants, etc.

COTULLA, TEX.—The Holland-Texas Dam & Irrigation Co. will construct a dam across the Nueces River ten miles below Cotulla. The dam will be of reinforced concrete and will form a large water storage reservoir for irrigating 1,700 acres of land.

EL PASO, TEX.—The Pecos & Toyah Lake Irrigation Co. has been incorporated with a capital of $1,500,000. The company will build dams and canals and furnish water to towns and cities. It will have a reservoir of nearly 9,000 acres. The incorporators are: J. N. Levin, R. S. Johnson, F. W. Taylor, of Lincoln, Neb., and others.

YOAKUM, TEX.—The Yoakum Improvement Co. will extend water mains about 3,600 ft.

EL RENO, OKLA.—The city will soon ask for bids for bonds issued for the purpose of constructing a municipal water-works plant. Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., are Engrs.

FORT SILL, OKLA.—Luyster & Lowe, of Dayton, Ohio, are the lowest bidders at $26,600 for the construction of the 500,000-gallon reservoir as part of the water system. Capt. David L. Stone is Constructing Q. M., U. S. A.

FAIRFAX, OKLA.—The city has awarded contract to the SOUTHWESTERN ENGINEERING CO., Oklahoma City, Okla., for constructing water-works and sewer system, costing $50,000. Harry S. Buford is City Clk.

MUSKOGEE, OKLA.—Bids will be received until July 5 by Charles Wheeler, Jr., City Clk., for furnishing f. o. b. cars Muskogee, 16,130 ft. of 6-in. c.-i. pipe, fire hydrants, etc.

*BOULDER, COLO.—Bids for the construction of a rubble concrete masonry dam at Albion Lake reservoir, Boulder County, will be received by the City Council until 7 p. m., July 18. The dam is to be 60 ft. high and the work includes about 13,000 cu. yds. rubble concrete, together with necessary excavation, gate houses, valves, etc. Bidders should visit the site before bidding on the work. For details see advertisement in this issue. M. S. Ketchum is Consulting Engr., 438 Century Bldg., Denver.

DENVER, COLO.—Bids will be received until 2 p. m., July 2, by the Rio Grande Reservoir & Ditch Co., Room 420, Symes Bldg., Denver, for furnishing material and constructing a storage reservoir at Santa Maria Lake, Mineral County. Thomas W. Jaycox is Engr., 1608 Broadway, Denver. The work will consist mainly of a 48-in. diameter continuous wood stave pipe 8,000 ft. long, a concrete-lined canal 8,000 ft. long; a hydraulic fill, or earth dam containing 265,000 cu. yds., outlet tunnel 600 ft. long, outlet canal 3,000 ft. long, spillway, diversion dam, valve chamber, valves, etc. Bids will be received for any portion or for the entire work as above stated. Plans, specifications and form of contract may be seen and proposal blanks obtained at the office of the company, and at the office of Thomas W. Jaycox, Consulting Engr.

SEATTLE, WASH.—The Board of Public Works has awarded the following contracts for street improvements: West 59th St. and other streets, water mains, to ALLAIN & HULL, at $9,878; Klickitat Ave. and other streets, water mains, to WILL KOPTA, at $15,182; West 63d St., sewer, to G. SAVISTIO, at $4,234; California Ave. and other streets, sewer, to ALLAIN & HULL, at $18,915; North 51st St., water mains, to JAHN CONSTRUCTION CO., at $39,865.

SAN FRANCISCO, CAL.—The Acting City Engineer has completed his plans for laying the pipe lines in the first district in the auxiliary system for fire protection, embracing most of the district east of Powell and north of Market Sts., and work will commence as soon as bids are asked and received and the Board of Supervisors gives the necessary authorization. Pending the construction of the Twin Peaks reservoir and the remainder of the system, the pipe lines of the first district will be supplied with water by the fireboats from stations at the foot of Powell St., Grant Ave., Francisco St., Greenwich and Washington Sts. The pipe lines will vary in diameter from 10 to 18 ins., the hydrants to be set upon them will be 8 ins. in diameter, each hydrant being supplied with three 3½-in. vents, capable together of discharging 6,000 gallons per minute, which will be equal to the work of five fire engines. There will be 229 hydrants distributed on both sides of all the streets traversed by the pipe lines. In the high-value district there will be eight hydrants to a block, and four elsewhere. Along Market St. from the water front to Powell St. there will be 40 hydrants. The pressure to which the hydrants will be subjected is 325 lbs. per sq. in. This is the maximum pressure. All of them, together with the appurtenances, have been tested to 650 lbs. per sq. in. The underground conduits to convey the city's telephone system will be laid at the same time as the pipes. In the filled ground east of Montgomery St. a special type of joints will be used, designed to prevent damage from earthquakes. Elsewhere, the ordinary c.-i. bell and spigot joint will be used. The estimated cost of laying the pipe and installing the hydrants is $150,000. Work in the planning of the second, or Mission district, is nearing completion. Manden Manson is City Engr.

FORT MASON (San Francisco post-office), CAL.—Bids are asked until 11 a. m., July 5, by Maj. George McK. Williamson, Q. M., U. S. A., for constructing an 8-in. water main from Presidio of San Francisco to Fort Mason.

NEW GLASGOW, N. S.—T. W. W. Doane, of Halifax, has been engaged as engineer for the improvements to the water-works. Preliminary surveys are now being made. Estimated cost, $75,000.

SEWERS.

(* *denotes that this work is advertised in Engineering News.*)

*ATTLEBORO, MASS.—Bids are asked until 3 p. m., July 6, by the Commission on Sewerage, addressed Charles S. Holden, M. D., Chn., for seven contracts for the construction of a trunk sewer and filtration areas. For details see advertisement in this issue. J. J. Van Valkenburgh is Engr.

BOSTON, MASS.—Contracts have been awarded by the city as follows: To McCARTHY & WALSH, of East Boston, for sewers in Gainsborough St., at $5,181; to CHARLES R. GOW CO., 79 Milk St., for the Rosindale branch of the Stony Brook conduit, at $40,870.

Bids were received as follows on June 7 for constructing Section 7, Stony Brook conduit: WILLIAM J. BARRY, 30 Fenwood Road, Roxbury, $75,326 (awarded contract); Charles R. Gow Co., $82,105; Antony Cefalo, $83,553; Bruno & Petitti, $83,623; Coughlan & Shiels, $84,929; Coleman Bros., $85,610; McCarthy & Walsh, $87,167; Jones & Meehan, $89,572; John J. Falvey, $89,774; Metropolitan Construction Co., $90,595; P. W. Hill, $93,221; Luke D. Mullen, $93,224. Guy C. Emerson is Supt. of Streets.

NORTH ANDOVER, MASS.—Contract has been awarded to ARTHUR A. O'MAHONEY by the Board of Public Works for furnishing and laying about 6,300 lin. ft. of pipe sewers here. Charles E. Johnson is Supt.

WESTFIELD, MASS.—Contract for constructing 4,100 ft. of pipe sewers, bids opened on June 11, has been awarded to EDWARD B. ROBERTS, 730 Old South Bldg., Boston, at $4,770.

PAWTUCKET, R. I.—See item under Water Supply—Irrigation.

NEW HAVEN, CONN.—Bids will be received until 2 p. m., June 24, by C. W. Kelly, City Engr., for constructing sewers in Scranton and Munson Sts.

HARTFORD, CONN.—Bids were received on June 14 by the Board of Control for the construction of sewers as follows, all bidders of Hartford: (a) Hillside Ave., (b) Cabot St. and Homestead Ave., (c) Park St.: Bernardino Silvestri & Co., (a) $16,573, (b) $7,460, (c) $4,860. Louis Petrossi (b) $7,260, Hartford Paving & Construction Co., (a) $17,094, (b) $10,634, (c) $3,270. O'Neil Bros. & Nero, (a) $14,409, (b) $9,210, (c) $3,616.

PUTNAM, CONN.—We are officially advised that the city has adopted a system of sewers designed by Chandler & Palmer, 161 Main St., Norwich, Conn., and appointed them as engineers. The Council has authorized the Highway Committee, G. Allen Hawkins, Chn., to begin the work of construction. George W. Perry, of Putnam, is Resident Engr.

FARMINGTON, CONN.—Bids for the construction of 782 lin. ft. of 24-in. and 40 lin. ft. of 12-in. tile drain, including three catch-basins and approximately 118 cu. ft. of masonry, will be received by the Board of Selectmen, E. M. Ryan, Chn., until 5 p. m., June 25.

NEW YORK, N. Y.—Bids are asked until 11 a. m., July 6, by Lawrence Gresser, Pres. Boro. of Queens, for constructing sewers on various streets in Queens.

BROOKLYN, N. Y.—Bids are asked until 11 a. m., July 6, by Alfred E. Steers, Pres. Boro. of Brooklyn; for constructing sewers on various streets in Brooklyn.

BROOKLYN, N. Y.—Bids are asked by Alfred E. Steers, Boro. Pres., until 11 a. m., June 29, for constructing sewers and sewer basins in various streets.

WASHINGTON, N. J.—Bids will be received until June 27 by the Common Council, care of A. J. Craft, Boro. Clk., for $60,000 sewer system bonds.

MADISON, N. J.—George W. Fuller, 170 Broadway, New York, has been engaged as engineer for the sewer system contemplated here. Nothing definite has yet been done regarding the matter.

NORTH PLAINFIELD (Plainfield post-fice), N. J.—The citizens on June 14 vo in favor of constructing a sewer system. timated cost, $300,000.

*NORRISTOWN, PA.—Bids are asked the Committee on Sewage Disposal unti p. m., July 8, for constructing a sewage d posal plant, laying c.-i. and terra cotta pi constructing collecting walls and pu -houses and furnishing machinery, State H pital for the Insane, Norristown. Albri & Mebus, 908 Land Title Bldg., Philadelph are Engrs.

NORTH BRADDOCK, PA.—Bids are ask until 3 p. m., July 1, by C. A. Stewa Boro. Engr., for sewers in various streets.

FREDERICK, MD.—The city has award contract, it is reported, to COBLENTZ KLIPP, of Frederick, to construct a sew in Carroll and North Market Sts.

GLENBURNIE. MD.—The Maryland N tional Guard will construct a sewerage di posal plant on Saunders' Rifle Range, wor to be under the supervision og J. W. Shirle Chief Engr., Topographical Survey, Ci Hall Annex, Baltimore, Md.

*WASHINGTON, D. C.—Bids were receive as follows on June 20 by the Commissioner of the District of Columbia for the co struction of sewers A to I in the District: (a) E. G. Gummel, (b) Warren F. Brenize Co., (c) James A. Coyle, all of Washington Ordinary excavation, Sewer "A," (a) $1, (b 60 cts.; "B," (a) $1.10, (b) 75 cts., (c) 8 cts.; "C," (a) $1, (b) 80 cts.; "D," (a $1, (b) 75 cts.; "E," (a) $1.10, (b) $1; "F, (a) $1, (b) 65 cts.; "G," (a) $1.15, (b) $1 "H," (a) $1, (b) 75 cts.; "I," (a) $1.45, (b 70 cts.; sewer brick masonry, "A," (a) $14 (b) $13; "B," (a) $14, (b) $13, (c) $13; "C, (a) $14, (b) $13; "D," same; "F," same; "H," same; "E," (a) $14, (b) $14; "G, same; "I," same; 18-in. diameter sewer pipe 'A," (a) $1.09, (b) 85 cts.; "B," (a) $1.09 (b) 85 cts., (c) $1; 12-in. diameter sewer pipe, "C," (a) 73 cts.; "D," (a) 73 cts.; 'F," same; "H," same; "E," (a) 73 cts., (b) 7 cts.; "G," same; vitrified brick masonry, (a) $23, (b) $20, Sewer "I" only; concrete masonry "D," (a) $7.50, (b) $7, Sewer "I" only; 6-in. subdrain pipe, (a) 30 cts., (b) 30 cts.

PARKERSBURG, W. VA.—The city will construct an 8-in. sanitary sewer in East Twelfth St. Bids are asked until June 23; Frank Good is Audr.

MARTINSBURG, W. VA.—See item under Streets and Roads.

ATLANTA, GA.—Bids are asked by R. V. LaDow, Supt. of Prisons, Dept. of Justice, Washington, D. C., for furnishing and delivering at the U. S. penitentiary at Atlanta, sewer and water pipe fittings, etc. Specifications are on file at the office of Engineering News, New York.

SAVANNAH, GA.—Bids are asked until July 25 by Chatham County for constructing reinforced concrete drain in De Renne Canal. G. Reuben Butler is Clk. County Comrs.

UNION CITY, TENN.—The city will ask for bids within 45 days for the construction of a sewerage system, plans for which are being prepared by C. H. Jenks, Consult. Engr., Fayette, Miss., and St. Louis, Mo.

LEXINGTON, KY.—Joseph Melvin & Co., of Lexington, are lowest bidders for the construction of sanitary sewer in Maple Ave., from Fourth to Fifth Sts., and on Jefferson St., from Main St. to Maryland Ave. Bids were opened on June 6. John Skain is Mayor.

AKRON, OHIO.—The City Council has passed an ordinance appropriating $9,196 for the purchase of a site upon which will be erected a sewage and garbage disposal plant.

JEFFERSON, OHIO.—Bids are asked until June 27, by the City Council, for the construction of general sewers. T. B. Miller is Clk.

YOUNGSTOWN, OHIO.—Bids will be received until June 25 by W. H. McMillen, Clk. Bd. Pub. Serv. for constructing sewers in portions of Gibson and Fountain Sts.

EVANSVILLE, IND.—Contract for the construction of a sewer in Lafayette Ave., from the corner of Lafayette Ave. and Illinois St. to the alley between Illinois and Franklin Sts., from Lafayette Ave. to Governor St., was awarded to G. L. HUGHES on June 14 by the Board of Public Works.

HUBBILL, MICH.—The PEARCE HARDWARE & FURNITURE CO., Lake Linden, Mich., has secured contract at $1.87 per ft. for 300 ft. of 30-in. sewer tile; at 14 cts. per ft. for 100 ft. of 8-in. sewer tile; at $14 for one 30 × 30 Y; at $14 for one 30 × 30 × 20 Y, and at $7.48 for one 30 × 18 reducer.

ANN ARBOR, MICH.—The following contracts have been awarded by the Board of Public Works for the construction of six sewers: KOCH BROS., for the construction of sewers in Districts Nos. 41, 36, 37 and 40; E. L. SCHNEIDER, for the construction of two sewers in the city.

DETROIT, MICH.—Robert H. McCormick, City Engr., is preparing plans for a new sewer to be constructed in 23d St., Section 4, from Buchanan to Grand River Aves. Estimated cost, $88,000. J. J. Haarer is Comr. Pub. Wks.

MARSEILLES, ILL.—On June 8 the Council awarded contract to GREEN SONS CO. for the construction of a sewer here at $26,744. G. L. Farnsworth is City Engr.

KENOSHA, WIS.—The citizens have voted to issue bonds for $50,000 for building a trunk sewer. It will be built either of concrete or brick.

MADISON, WIS.—Bids are asked until 7.30 p. m., June 24, by O. S. Norsman, City Clk., for constructing sewers in Patterson and Dayton Sts., in the Livingstone St. and Ingersoll St. districts.

CRESTON, IOWA.—We are officially advised that GEORGE W. AURACHER, of Creston, has been awarded contract for 1,400 ft. of 6-in. sewer, average cut 9 ft., at 72½ cts.; 1,800 ft. of 8-in. sewer, 9 ft. cut, at 95 cts.; 6-in. specials, at 35 cts. each, extra;

specials at 40 cts. each, extra; man- 30-in. clear, 4-in vitrified brick walls 4-in. concrete bottoms, no top, at $3.40 ft. of depth. Bids were opened on June Theodore S. Delay is City Engr.

EATTLE, WASH.—See item under Water ply—Irrigation.

OUX CITY, IOWA.—Contract for con- cting a storm sewer in Prospect St., opened on June 3, has been awarded L. CHRISTENSEN & CO., of Sioux City.

EW HAMPTON, IOWA.—FRASER & NFORTH, Rochester, Minn., have con- t, at 55 cts. per ft., for the construction 4,000 ft. of 8-in. sewer, and at 48½ cts. ft. for the construction of 3,000 ft. of water mains. The work includes man- es, flush tanks, hydrants and valves.

USCATINE, IOWA.—J. H. SELDON has n awarded contract by the Rock Island stem for the construction of its share of Papoose sewer extension.

AGLE GROVE, IOWA.—Bids for con- ucting pipe sewers here will be received out July 10. Estimated cost, $80,000. N. ontious, of Eagle Grove, is Engr.

*IOWA FALLS, IOWA.—The city will re- ive bids for constructing a sewer system, own as District No. 11, until July 6, ac- ording to plans and specifications now on le in the office of J. O. Gregg, Clk.

ROCHESTER, MINN.—W. C. FRASSER, of Rochester, has secured the contract to onstruct sanitary sewers here at $4,000. Henry Hall is City Clk.

BALDWIN, KAN.—The SQUIRE ELECTRIC & CONSTRUCTION CO., Kansas City, Mo., has secured contract for the construction of a sewer system in this city.

YATES CENTER, KAN.—The Council has awarded the contract for the engineering work in connection with the proposed sewer system and purification plant, which will cost about $50,000, to the J. S. Worley Co., Engrs., Reliance Bldg., Kansas City, Mo.

HAVELOCK, NEB.—We are officially advised that bids were received as follows on June 7 by the city for the construction of a sewer system: H. C. Gardner, Lincoln, Neb., $13,849; Inter-Mountain Building & Construction Co., $15,955. Elkhorn Construction Co., $14,749; E. D. Reed, $15,988. Contract, it is reported, has been awarded to H. C. GARDNER. Grant & Letton are Engrs., Lincoln.

MISSOULA, MONT.—Bids are asked until 5 p. m., July 11, by the city for furnishing all labor and material for the construction of a system of sanitary sewers in special improvements districts A, A1, A2, AB, AB1, AB2, AB3, AB4, AC, AC1, AC2, AC3, AC4, AC6, AD, AD1, AD2, AD3, AD4, AD5. Approximate estimate: Total length of sewers, 40,746 ft.; excavation and refill, 940 cu. yds. solid rock, 4,700 cu. yds. loose rock, 88,250 cu. yds. earth, 93,890 cu. yds., total excavation and refill; embankment, 1,160 cu. yds.; D. S. vitrified pipe, 7,260 ft. 8-in., 12,610 ft. 9-in., 5,950 ft. 10-in., 3,080 ft. 12-in., 1,950 ft. 15-in., 1,160 ft. 18-in., 900 ft. 20-in., 1,440 ft. 24-in., 2,750 ft. 27-in.; junctions, 440 8 × 6 × 2½ Y's, 675 9 × 6 × 2½, 300 10 × 6 × 2½, 140 12 × 6 × 2½, 40 15 × 6 × 2½, 60 18 × 6 × 2½, 30 20 × 6 × 2½, 70 24 × 6 × 2½, 35 27 × 6 × 3; pipe laying, 8,360 ft. 8-in., 14,610 ft. 9-in., 6,700 ft. 10-in., 3,425 ft. 12-in., 2,060 ft. 15-in., 1,300 ft. 18-in., 980 ft. 20-in., 1,621 ft. 24-in., 2,865 ft. 27-in.; manholes, 5-ft. diameter, 6; 6 to 10 ft. high (brick or concrete); 5-ft. diameter, 2; 10 to 14 ft. high (brick or concrete); 5-ft. diameter, 4; 14 to 19 ft. high (brick or concrete); 4-ft. diameter, 6; 6 to 10 ft. high (brick or concrete); 4-ft. diameter, 50; 10 to 14 ft. high (brick or concrete); 4-ft. diameter, 25; 14 to 19 ft. high (brick or concrete); flush tanks, 4½-ft. diameter, 6; 8 to 12 ft. high (brick or concrete); 4½-ft. diameter, 12; 12 to 16 ft. high (brick or concrete); combination, 1; 9 ft. high (brick); open conduit (concrete), 520 ft., 27-in. diameter; concrete bulkhead, one at mouth of main sewer; reinforced-concrete bridge, one over irrigation ditch; lumber, 100,000 ft. B. M.

*ST. LOUIS, MO.—The Board of Public Improvements opened bids on June 14 for the construction of the first sections of the Glaise Creek and River des Peres sewers. Bidders on the Glaise Creek work and the amounts were: George G. Prendergast Construction Co., $161,392; Southern Construction Co., $165,785; Hoffman-Hogan Construction Co., $171,818; John F. McMahon, $179,696; Fruin-Colnon Construction Co., $182,427. The estimated cost of the sewer is $180,000. On the River des Peres work the bidders and amounts were: Southern Construction Co., $310,533; Scott-Harmon & Hickey, $375,270; American Engineering Co., $385,462. The estimate is $324,000.

HOUSTON, TEX.—Plans and specifications for a storm water sewer in Calhoun St., from Milam St. to Broadway, are to be prepared by the City Engineer.

FORT SILL, OKLA.—Luyster & Lowe, Dayton, Ohio, are the lowest bidders, at $12,600, for the construction of the sewerage purification plant. Capt. David L. Stone is Constructing Q. M., U. S. A.

TACOMA, WASH.—Owen Woods, Comr. Dept. Pub. Wks., awarded contracts on June 7 for the construction of the Monroe St. storm sewer, a sanitary sewer in District No. 194 and a temporary wooden bridge over Gallagher Gulch on Tacoma Ave. L. Y. STAYTON was the successful bidder for the Monroe St. contract, at $22,000. He will use cement pipe. TIGNANELLI & PAINE were awarded the contract for the sanitary sewer at $4,900. Vitrified clay pipe will be used. BARTZ, HUNTINGTON & WHITNEY got the Tacoma Ave. bridge contract at $10,494. The temporary bridge will be used until a permanent earth fill is built.

SAN FRANCISCO, CAL.—The Board of Public Works has awarded contract to the HEALY-TIBBITTS CONSTRUCTION CO., San Francisco, for laying of Section A of the North Point main sewer, at $164,300. Marsden Monson is City Engr.

OAKLAND, CAL.—Bids will soon be asked, it is reported, for constructing the south side sewer at a cost of about $30,000. I. N. Chapman is City Engr.

*SANDPOINT, IDAHO.—Bids for building Section No. 1 of District No. 1 of the Sandpoint sewer system, will be received by the Sewer Committee until 4 p. m., July 11. Approximate quantities include: One screen house; 2,000 lin. ft. 16-in. wood stave pipe outfall; 800 lin. ft. 30-in. reinforced-concrete pipe sewer; 4,280 lin. ft. 18-in., 2,267 lin. ft. 15-in., 2,085 lin. ft. 12-in., 898 lin. ft. 10-in., 4,477 lin. ft. 8-in. vitrified pipe sewer, with all necessary manholes, subdrains, etc. Foster & Cane are Engrs., Sandpoint.

GARBAGE DISPOSAL.

(** denotes that this work is advertised in Engineering News.*)

BOSTON, MASS.—Bids were received as follows on June 18 by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for refuse kiln, navy yard, Boston: Lewis & Kitchen, 1200 Michigan Ave., Chicago, Ill., $5,144; Jarvis Engineering Co., 63 Oliver St., Boston, $4,700, $5,000; Morse-Boulger Destructor Co., 39 Cortlandt St., New York, $5,300; Dixon Engineering & Construction Co., Room 47, The Colonade, Toledo, Ohio, $6,442.

WEST HOBOKEN, N. J.—Bids for the collection of ashes and garbage in West Hoboken were received by the Board of Council on June 14. The bidders were: James Padavano, $7,200; Pasquale Di Rossi, $8,300; Peter A. Peluso, $6,500; Lorenzo Lepore, $7,800; Antonio Capone, $7,585.

AKRON, OHIO.—See item under Sewers.

TOLEDO, OHIO.—Contract has been awarded to FRED C. ALBER, of Cleveland, Ohio, for the disposal of the city's garbage at $5,875. Bids were opened on June 10. List of bidders noted last week.

VANCOUVER, B. C.—We are officially advised that the PUBLIC WORKS ENGINEERING CO., Beck Bldg., Portland, Ore., has been awarded contract for the new refuse and garbage destructor here at $72,500. List of bidders noted last week.

STREETS AND ROADS.

(** denotes that this work is advertised in Engineering News.*)

KENNEBUNK, ME.—Bids are asked by the Selectmen of Kennebunk until 2 p. m., June 29, for building a section of gravel and macadam state road, about 10,196 ft. long, in the town of Kennebunk.

CONCORD, N. H.—Bids are asked by H. C. Hill, State Engr., until 1 p. m., July 1, for constructing gravel roads in the towns of Northumberland, Campton and Enfield, to cost $7,500, $11,000 and $9,000 respectively.

Bids are asked by H. C. Hill, State Engr., until 1 p. m., July 8, for constructing 1,120 ft. of trap rock road in Allenstown and 2,800 ft. of gravel road in Merrimack.

We are officially advised that the contract for grading and resurfacing 34,000 ft. of road in Hanover, with gravel and native stone, has been let to the LANE CONSTRUCTION CO., of Meriden, Conn.

BURLINGTON, VT.—Bids are asked by the Street Commissioners until 2 p. m., June 25, for setting stone or concrete curbing on Marble Ave., on both sides, on Archibald St., between Intervale Ave. and Walnut on both sides, and on Hickok Pl. from Greene St. to Isham St. on the north side.

HARTFORD, CONN.—Contracts for state road work, bids for which were opened June 14, have been awarded by the State Highway Commissioner as follows:

Town of Meriden, 5,738 lin. ft. macadam, including one 18-in. and three 12-in. tile culverts, to C. W. TRYON, of Meriden, Conn., at $1.49 per lin. ft. for macadam, $2.10 for telford, $1 per lin. ft. for rubble drain, and 60 cts. per sq. yd. for cobble gutters.

Town of Ledyard, 5,150 lin. ft. grading on the River Road, including four 15-in., one 18-in., and one 12-in. tile culverts, to the ELDRIDGE CONSTRUCTION CO., of Mystic, Conn., at $7,444. Telford 45 cts. per lin. ft. extra; cobble gutters, 25 cts. per sq. yd.

Town of Coventry, 10,000 lin. ft. gravel, including one concrete arch culvert, to AHERN BROS., Norwich, Conn., at $1.35 per lin. ft. for gravel, $1.90 for telford, $1.10 per lin ft. for rubble drain, and 75 cts. per sq. yd for cobble gutters.

Town of Colchester, first Section, 3,753 lin. ft. gravel, including four 12-in. tile culverts, to AHERN BROS. of Norwich, Conn., at $1.25 per lin. ft. for gravel, $1.85 for telford, $1 per lin. ft. for rubble drain. Second Section, 2,005 lin. ft. gravel, to ROGER BARNES, of New London, Conn., at $1.49 per lin. ft. for gravel, $2.39 for telford, $1.25 per lin. ft. for rubble drain, and 24 cts. per sq. yd. for cobble gutters.

Town of Salem, 5,130 lin. ft. gravel, including two 18-in. and one 20-in. tile culverts, to ROGER BARNES, of New London, Conn., at $1.49 per lin. ft. for gravel, $2.39 for telford, $1.25 per lin. ft. for rubble drain and 24 cts. per sq. yd. for cobble gutters.

Town of Clinton, 16,016 lin. ft. graded road, including four reinforced concrete arch culverts and five 15-in., three 20-in., two 12-in., three 18-in. and one 24-in. tile culverts, to JOSEPH D'ALOIA, of West Somerville, Mass., at $14,291. Telford $2.25 per lin. ft. extra; rubble drain 85 cts. per lin. ft. for masonry, $5.50 per cu. yd.

Town of Killingworth, 11,485 lin. ft. graded road, including four 24-in., two 20-in. and one 15-in. tile culverts, to the B. D. PIERCE, JR., CO., of Bridgeport, Conn., at $15,900. Telford, 65 cts. per lin ft. extra; rubble drain, 70 cts. per lin. ft.

Town of Putnam, 4,700 lin. ft. macadam, on the Dayville road, including two 15-in., three 18-in., one 24-in. and one 20-in. tile culverts, to A. D. BRIDGE'S SONS, INC., of Hazardville, Conn., at $2.93 per lin ft. for macadam, $3.73 for telford, and $1 per lin. ft. for rubble drain.

HARTFORD, CONN.—Bids will be received at the office of the State Highway Commissioner, Capitol, until 2 p. m., June 24, for state road work, as follows:

Town of Ellington, two sections of macadam or gravel, aggregating 6,880 lin. ft., including two 12-in., three 15-in., and one 18-in. tile culverts and one reinforced concrete arch culvert. Plans and specifications with J. H. Lynch, First Selectman.

Town of Plainville, 1,485 lin. ft. macadam road on West Main St. Plans and specifications with P. J. Prior, First Selectman.

Town of Seymour, two sections of gravel road, including five 12-in., and three 15-in. tile culverts. Plans and specifications with George A. Divine, First Selectman.

Town of Stratford, 5,150 lin. ft. macadam on the Milford-Stratford turnpike. Plans and specifications at Selectmen's office, Stratford.

Town of Milford, 2,300 lin. ft. macadam on the Milford-Stratford turnpike. Plans and specifications at Selectmen's office, Milford.

Town of Kent, three sections graded road, aggregating 5,355 lin. ft., including one 18-in., one 15-in. and one 12-in. tile culverts. Plans and specifications at Town Clerk's office, Kent.

FORT SLOCUM (New Rochelle post-office) N. Y.—Bids are asked until 11 a. m., July 12, by the Constructing Q. M., for constructing roads, sidewalks, curbs, gutters and drains at this post.

NEW YORK, N. Y.—Bids are asked by Alfred E. Steers, Pres. Boro. of Brooklyn, until 11 a. m., July 6, for regulating, grading, paving and laying sidewalks on various streets in Brooklyn.

*PELHAM MANOR, N. Y.—We are officially advised that bids were received by the Village Trustees on June 13, for reconstructing about 6,200 lin. ft. of macadam streets, with stone gutters. Henry M. Babcock is Village Clerk. The contract has been let to SMITH BROS., of North Pelham, N. Y., at $9,612. John F. Fairchild, Mount Vernon, is Village Engr.

DUNKIRK, N. Y.—Bids were received on June 2 for paving (a) with asphalt Swan St. and (b) resurfacing with asphalt West Fourth St., as follows: Bids on (a) Swan St. are on stone curb and on concrete curb and gutter respectively: Henry Mayer, Sr., Erie, Pa., (a) $17,768 and $18,250, (b) $17,047; R. C. Ruthvan, Scranton, Pa., (a) $18,904 and $20,110, (b) $19,436; Henry P. Burgard Co., Buffalo, N. Y., (a) $17,178 and $17,275, or $16,440 and $16,537 for brick, (b) $16,637; Warner Quinlan Asphalt Co., Syracuse, N. Y., (a) $19,129 and $19,563; (b) $17,441; John McCormic & Son, Erie, Pa., (a) $18,764 and $18,861, (b) $17,346; James Paul Morrissey, Dunkirk, N. Y., (a) $17,905 and $18,532, or $17,331 and $17,958 on brick, (b) $17,609.

HOOSICK FALLS, N. Y.—Bids will be received until 8 p. m., July 8 by the Public Improvement Commission for 68,200 sq. ft. of concrete sidewalks, 5,600 sq. ft. concrete driveways, 4,660 lin. ft. concrete curb and gutter, and 7,500 sq. ft. flags walk relaid, also about 90 sq. yds. of vitri, brick pavement, and 2,700 sq. yds. of bitumen macdam. W. Thomas Wooley, is Engr., Municipal Bldg., Hoosick Falls; Sanford L. Cluett is Secy. Comn.

MT. HOLLY, N. J.—Bids will be received until July 5, by Harry E. Dubell, Dir. Bd. Chosen Freeholders, for constructing a gravel road from Gardner's Corner, beginning at end of Indian Mills gravel road and running southerly to Atlantic County line at Atsion, a distance of about 4.26 miles. Earl Thomson is County Engr., 301 Market St., Camden. Bids were received for this work on June 13, but no contracts were awarded.

FLEMINGTON, N. J.—Bids will be received until July 8 by the Board of Chosen Freeholders, Bloom Bldg., Flemington, for constructing a macadam road, a distance of 17,802 ft. J. W. Sharp is Dir.

HACKENSACK, N. J.—The contract for improving Paterson Plank Road from Carlstadt Station to Passaic River, has been awarded to GEORGE F. BRACKETT, of Clifton, N. J., at $76,000.

TRENTON, N. J.—The Board of Chosen Freeholders has awarded contracts for road improvements as follows: Brunswick Pike, to RUSSELL KLOCKNER, at $9,953; Allentown Yardville Road, to McGOVERN CONSTRUCTION CO., at $33,993. The lowest bids opened by Board of Chosen Freeholders for improving Pennington-Harbourton Road and Pennington-Washington Crossings Road were submitted by A. E. Stout, of Hopewell, at $26,792 and $26,322 respectively.

*GLEN GARDNER, N. J.—Bids will be received by the Board of Managers of the New Jersey Sanatorium for Tuberculosis Diseases until 7 p. m., July 7, for furnishing materials and construction of approximately one mile of macadam road on the State lands adjoining the Sanatorium. Dr. Samuel B. English is Supt.

*NEWARK, N. J.—Bids are asked until 3 p. m., July 11, by the Committee on Roads and Assessments of the Board of Chosen Freeholders of Essex County, at the Courthouse, Newark, N. J., for grading and paving with bituminous Telford pavement, Pleasant Valley Way, extending from Bloomfield Ave., Boro. of Verona to Mountain Ave., in the Town of West Orange, a distance of about four miles. Wallace Ougheltree is Dir.

*YORK, PA.—The STANDARD BITULITHIC CO., 50 Church St., New York, N. Y., has secured the contract for 14,466 sq. yds. of bitulithic pavement, and the JUNIATA PAVING CO., of York, the contract for 4,300 sq. yds.

BEAVER FALLS, PA.—The following bids were received on June 2 by the Highway Department at Harrisburg for constructing 6,900 ft. of road in Chippewa Township: John F. Howley & Co., Pittsburg, macadam, $17,316, brick, $26,858; The Standard Bitulithic Co., 50 Church St., New York, N. Y., $23,297, macadam; R. D. Hunter, Beaver, Pa., macadam $16,789.21, brick, $23,297, concrete macadam top $22,718; Rhinehart Bros., East Liverpool, Ohio, wire cut brick top, $23,940; J. T. McGuire & Co., New Brighton, macadam $15,858, brick $27,511; Ridge Bros. & Co., Pittsburg, macadam, native stone bottom, $14,724, brick $22,387.

SCRANTON, PA.—Two asphalt paving contracts which will involve an expenditure of more than $35,000 were awarded on June 11 to R. C. RUTHVEN, of Scranton. One of the contracts is for the paving of Electric St., between Washington and Monsey Aves., for which the City Engineer's estimate is $15,859, and the other is for paving Pittston Ave. from Brook St. to a point near Breck St. The latter work will cost $20,291, according to the engineer's figures. Mr. Ruthven's bid on both contracts was $1.70 per sq. yard for asphalt. The McDonald Construction Co.'s proposal was $1.73, and the Warner-Quinlan Co.'s, $1.89. Mr. Ruthven is also low on the extras.

SCHUYLKILL HAVEN, PA.—Bids are asked until 7.30 p. m., July 5, by Floyd H. Minnig, Boro. Secy., Dock St., Schuylkill Haven, for paving the following streets in the Borough of Schuylkill Haven with vitrified brick: St. John's St., from Main St. to Union St., a distance of 575 ft., and 41 ft. in width, and on Main St., from Dock St., to Margaretta St., a distance of 180 ft. and 33 feet in width. George W. Butz, Center Ave., Schuylkill Haven, is Engr.

BUTLER, PA.—Paving contracts aggregating about $20,000 were awarded on June 9 by the Paving Committee of the Borough Council as follows: N. J. BOYER, Clay and Broad Sts., with DuBois and Butler block; JOHN SCHAFFNER, Fulton and East Jefferson Sts., the former with DuBois and Butler block, and the latter with Porter National block; TONY MORELLI, Cliff St., Porter National block; all the streets will have stone curbing and gutters.

PITTSTON, PA.—We are officially advised that on June 17 McCONVILLE & FITZPATRICK, of Pittston, for 8,500 sq. yds. of brick paving in Exeter Borough, at $21,779. Mack block will be used.

BALTIMORE, MD.—Bids are asked by the Highway Commission of Baltimore County until noon, July 14, for building a section of State Aid Highway in Baltimore County, upon or along the Valley road, Section 6, between Jenkins' entrance and Rogers Ave., for a distance of about 0.51 miles. E. Stanton Bosley is Secy.

Bids are asked by the Board of Awards of the City of Baltimore, until 11 a. m., June 29, to grade, curb and pave with sheet asphalt, asphalt blocks, vitrified blocks or bithulithic, Laurens St., from the west side of Park Ave. to the east side of Bolton St. B. T. Fendall is City Engr.

We are officially advised that bids were received by the Board of Awards on June 15, to grade, gutter and pave with macadam 26th St., from Eastern Ave., to a point about 1,153 ft. northward. The contract has been let to P. FLANIGAN & SONS, 120 East Lexington St.

*WASHINGTON, D. C.—Bids are asked by the District Commissioners until noon, July 9, for paving various streets and avenues in the District of Columbia with sheet asphalt and asphalt block.

FORT MONROE, VA.—Bids are asked by Capt. Ernest R. Tilton, Constr. Q. M., until 10 a. m., June 27, for filling, grading, surfacing and constructing concrete walks, brick gutters, macadam roads, etc., around new buildings at Fort Monroe, Va.

MARTINSBURG, W. VA.—We are officially advised that the Tuscarora Realty Co. is developing about 20 acres within the city limits of Martinsburg. Estimates will be secured soon on about 10,000 cu. yds. of earth excavation; 2,000 cu. yds. of rock excavation; about 11,000 sq. yds. of stone macadam pavement; 4,200 ft. of concrete curb and gutter; 15,000 sq ft. of cement sidewalks; and several hundred feet of 12-in. storm sewers.

LAKE CITY, FLA.—Bids will be received until 7.30, July 12, by J. W. Layne, Secy. Bd. of Pub. Wks., for constructing about 16,000 sq. yds. of vitrified brick pavement and about five miles of cement sidewalks.

NEW ORLEANS, LA.—Bids will be received until 11 a. m., June 25, by Charles R. Kennedy, City Comptroller, for repaving on portions of Bienville and Audubon Sts., and paving on Joseph and Eighth Sts., with Pitch Lake asphalt and with creosoted wood block on Morgan Boulevard, for sub-surface drains, culverts, curbs and constructing sidewalks on Joseph, Bienville, Eighth and Audubon Sts.

KNOXVILLE, TENN.—The City Council has appropriated $15,000 for the opening and extending of Jackson Ave. J. E. Thompson is City Engr.

MAYSVILLE, KY.—KELLY BROS., of Portsmouth, Ohio, have secured the contract for street improvements in Maysville at $19,000.

LEXINGTON, KY.—The contract for paving on Limestone St., with brick, has been awarded to KELLY BROS., of Portsmouth. Ohio., at $1.85 per sq. yd. Total, about $20,000.

BUCYRUS, OHIO.—Bids were received on June 7 for paving Mansfield St. as follows: L. P. Batterfeld, Bucyrus, $13,943; A. P. Caldwell, Galion, Ohio, $15,287; P. Drake & Son, Marion, $12,618; J. W. Scott, Marion, $13,089; Hofstetter & Dawson, Marion, $11,871; H. S. Enck, Lima, $13,920; L. R. McMichael, Bucyrus, $12,279; J. L. Smith, Lorain, $13,387; E. A. Freshwater, Chester, W. Va., $13,605, and Toledo Asphalt Co., Toledo, $19,050.

COLUMBUS, OHIO.—An ordinance has been adopted by the City Council declaring it necessary to improve Columbus St. between Front St. and Parsons Ave. with brick. A resolution has been adopted to pave the sidewalks on both sides of Oakland Ave. from High St. to Williams St. with cement. A resolution has been adopted also to improve Belle St. from Broad St. to Rich St.; Town St. and to construct a sewer' in Richardson Ave. from Grace St. to the first alley north.

ASHLAND, OHIO.—The Trustees of Montgomery Township, received bids on June 11 for construction of three miles waterbound limestone macadam and three-fourths mile rolled gravel road improvements. D. A. PHILLIPS & SON, of Ashland, secured the contract.

ELYRIA, OHIO.—The Board of Control, on May 25, awarded the contract for paving 7,000 sq. yds. on Sixth St., with asphalt block to ANDREWS ASPHALT PAVING CO., of Hamilton, for $15,550.

DAYTON, OHIO.—The contract for grading and graveling Reasor Ave. from Main St. to Stillwater, was let on June 8, to SELLERS & SCHMITTHAUER. Their bid, the lowest, was for $4,031.

MT. GILEAD, OHIO.—The contract for the construction of the Westfield road has been awarded to BRADY, O'CONNEL & MALLOY, at their bid of $20,464.

DELAWARE, OHIO.—We are officially advised that bids were received on June 18, by W. F. Whittier, County Surv., for improving the Berkshire North Road, 4.7525 miles, by draining, grading and macadamizing. The contract has been let to H. N. OBERLANDER, of Marion, Ohio, at $21,845. The Engineer's estimate was $24,518.

CINCINNATI, OHIO.—The County Commissioners on June 14 awarded the contract for the improvement of the Montgomery Pike with granite, from the Norfolk & Western Ry. crossing to Carthage Ave. in Norwood, to EDWARD RYAN on his bid of $43,720. Other bidders were W. F. Garretson, $46,190; John Snyder, $46,592; John Reubel Construction Co., $48,340; M. Sullivan & Sons Construction Co., $48,380; Kirchner Construction Co., $50,260; Thomas P. Strack, $50,460; James M. McJoynt, $51,614. The Engineer's estimate was $53,380. The Board approved plans and specifications for the improvement of the New Haven road, from Harrison Pike to the Miami River bridge at New Baltimore. The Engineer's estimate on the work was $25,635. Plans and specifications were also approved for the improvement of Short Ave. through the village of Fern Bank, which it is estimated will cost $6,314. The surveyor reported that the resurfacing of Springfield Pike, from Oak Ave. in Glendale to the Butler County line, would cost $6,900, and $600 additional would be required for oiling the road between these points. Plans and specifications were ordered on both contracts.

Elberon Ave. from State Ave. to Bassett Road, will be paved with granite. The Director of Public Service has awarded the contract to EDWARD RYAN, at $184,208, this being the lowest bid on granite. On bitulithic the Kirchner Construction Co. was lowest, at $180,273. The engineer's estimate on granite was $234,288.95. The people on Price Hill asked that the material be granite. The Director has awarded the contract for the reinforced concrete bridge over the C., L. & N. railroad at Whittier St. to The KIRCHNER CONSTRUCTION CO., at $6,052, this being about $800 less than the engineer's estimate. The pavement will be granitoid.

BARTLESVILLE, OHIO.—The KANSAS BITULITHIC CO., of Kansas City, Mo., has secured the contract to pave 8,000 sq. yds. of bitulithic, at $2.38 per sq. yd. and 55 cts. per lin. ft. for curb and gutter.

YOUNGSTOWN, OHIO.—Bids will be received until noon, June 25, by W. H. McMillen, Clerk Board of Public Service, for furnishing material and paving a portion of Kensington and Madison Aves. Also for grading Shehy St., between Wilson Ave. and Edgewood St. W. H. McMillin is City Clerk.

The Board of Control has awarded the following contracts: The sewering and grading of Delaware Ave. to HANNON BROS., for $1,131; sewering of Forest Ave. to GARTLAND BROS., for $764.60; paving of Lane Ave. to S. H. DeGROODT, for $7,701. The above bidders were low in each of the contracts.

INDIANA.—Bids for the construction of gravel and macadamized roads in Indiana will be received as follows:

July 5, at 2 p. m., by Commissioners of Grant County at Marion, Ind., for the construction of a gravel road in Fairmont Township; A. Y. Stout, Audr.

July 5, at 1 p. m., by Commissioners of Wabash County, at Wabash, Ind., for the construction of a gravel road in Lagro Township; J. P. Noftzger, Audr.

July 5, at 1.30 p. m., by the Commissioners of Fountain County, at Covington, Ind., for the construction of a gravel road in Jackson Township, and also for the construction of a gravel road in Van Buren Township, Wm. B. Gray, Audr.

July 5, at 10 a. m., by Commissioners of Tipton County, at Tipton, Ind., for the construction of a gravel road in Madison Township, 5286 ft. in length; J. F. Barlow, Audr.

July 6, at 10 a. m., by Commissioners of Adams County, at Decatur, Ind., for the construction of a macadamized road in St. Mary's Township; M. S. Michaud, Aud.

July 6, at 2 p. m., by Commissioners of Monroe County at Bloomington, Ind., for the construction of a gravel road in Washington Township; Horace Blakely, Audr.

July 7, at 10 a. m., by Commissioners of Tippecanoe county at La Fayette, Ind., for the construction of a gravel road in Shelby Township; John P. Foresman, Aud.

July 8, at 2 p. m., by Commissioners of Boone County at Lebanon, Ind., for the construction of two gravel roads in Harrison and Eagle Township; B. F. Heindrick, is County Audr.

July 8, at 2 p. m., by Commissioners of Wayne County at Richmond for the construction of a macadamized road from City limits west to Wayne Township line, known as the National road; estimated cost, $57,460; D. S. Coe, Audr.

July 11, at 10 a. m., by Commissioners of Vermillion County, at Newport, Ind., for the construction of a gravel road in Clinton Township; H. T. Payne, Audr.

LAPORTE, IND.—Bids are asked until 7.30 p. m., June 29, by the Common Council, for the construction of concrete sidewalks on Franklin Court from Michigan Ave. to the northerly terminus of said street. William F. Krueger is City Clerk.

DETROIT, MICH.—Robert H. McCormick, City Engr., is preparing plans for repaving Windsor St. from Antone St. to Russel St. with asphalt; Berry Ave. from 16th St. to Humboldt; Fourth Ave. from Fort to Porter Sts.; Mack Ave. from Mt. Elliott to Bellview; Eighth St. from Fort to Michigan; Maple from Dequindre to St. Aubin; and Napoleon St. from Brush to Hastings. Cost, $79,000. J. J. Haarer, is Comr. of Public Works, City Hall.

Robert H. McCormick, City Engr., is preparing plans to pave Beaubien St. from the Boulevard to Bethune Ave., with creosoted blocks. Cost $6,000.

The Commissioner of Public Works has awarded the following contracts for paving various streets: Collins St. from Mack to Harper with concrete to R. D. BAKER CO., Home Bank Bldg., at $33,993; Hart Ave. from Waterloo to City limits with cedar to T. E. CURRIE, 345 Pennsylvania Ave., cost $12,494; St. Paul Ave. from Parker to Burns Ave., Section No. 2, with cedar block, to W. W. HATCH & CO., Hammond Bldg., cost, $7,868. Section No. 1 from Vandyke to Parker with cedar, cost $2,572.

CHICAGO, ILL.—See item under buildings.

CHICAGO, ILL.—The contract for asphalt street repairs on June 10, was awarded by the Commissioner of Public Works, to the BARBER ASPHALT PAVING CO., 143 Dearborn St. The bid was 76 cts. a sq. yd. for resurfacing. The city fixes the price for "binder" at $5 a ton and for concrete necessary in foundations at $7 a cu. yd.

BLOOMINGTON, ILL.—The Board of Local Improvements, on May 26, awarded the contract for paving with asphalt portions of West Washington and South Main Sts., to the ANDREWS ASPHALT CO., of Hamilton, Ohio, at $1.28 per sq. yd.

RACINE, WIS.—The WHITE CONSTRUCTION CO., of Milwaukee has been awarded the contract for paving Carlisle Ave. with asphalt at $1.97 per sq. yd. Two other bids were received: The Barber Asphalt Paving Co., $2.10 per sq. yd., and the Badger Construction Co., of Milwaukee, $2.05. For a brick pavement on Douglas St. the Western Improvement Co. of Racine bid $2.08 for resetting the curb and James Cape & Sons bid $2.10 per sq. yd. and 30 cts. for resetting the curb. For resurfacing Washington Ave. James Cape & Sons bid 57 cts. and the Western Construction Co., 62 cts. per sq. yd.

SUPERIOR, WIS.—Thirteen bids have been received by the Board of Public Works for the paving of John Ave. The pavement from Third St. to Winter St. will be 40 ft. and from Winter to Belknap 30 ft. wide. Following are the low bidders: Third to Winter, creosoted blocks, E. A. Dahl, $27,428; concrete, Diffor & Riches, $23,563; brick, Welsh & Johnson, $26,687; bitulithic, Warren Bros., $27,752. Winter to Belknap, brick, Welsh & Johnson, $20,231; creosoted blocks, E. A. Dahl, $21,161; bitulithic, Warren Bros., $21,035; concrete, Diffor & Riches, $17,148.

The following are the bidders for constructing the road from South Superior to the steel plant: Cole & Ward, $11,737; P. G. Laughlin & C. H. Bird, $11,995; Shea & Lund, $15,919; J. B. Palmer, $12,857; Peterson & Holm, $13,992.

WATERTOWN, WIS.—The following bids have been received for 9,455 sq. yds. of vitrified brick pavement to be laid by the city and 2,000 additional sq. yds. to be built by the interurban company: E. L. Bartlett, Watertown, $20,704; Ross & Lehmann, Watertown, $21,828; Sweeney Bros., Reedsburg, $23,618.

CRESTON, IOWA.—We are officially advised that bids were received on June 13, by J. W. Reynolds, City Clerk, for paving and curbing Adams St., from South Lincoln St. to Stone St., with asphaltic macadam pavement and concrete curbing; for constructing sidewalks of Portland cement concrete, four and five inches thick. Theodore S. De Lay is City Engr. The contract has been let to HAMILTON & SCHWARTZ, of Shenandoah, Iowa.

GLYNDON, MINN.—Bids are asked by Gustav P. Lee, Clk. of Moland R. R. No. 1, until June 27 for building three miles of road.

DULUTH, MINN.—P. McDONNELL ,of Duluth, has secured the contract for paving Garfield Ave. with sandstone blocks, at $99,636.

ALBERT LEA, MINN.—Bids will be received until 5 p. m., June 24, by C. J. Dudley, City Clerk, for paving several alleys with creosoted wood block, vitrified brick, sandstone and mineral rubber, requiring, in all, about 4,015 sq. yds. pavement, 3,440 lin. ft. protection curb, etc. There will be about 1,762 sq. yds. of excavation. William Barneck is City Engr.

NORFOLK, NEB.—Bids will be received until June 27 by Edward Harter, City Clerk, for paving in District No. 1, about 23,286 sq. yds., with vitrified brick block.

SHERIDAN, WYO.—Bids will be received until June 27 by the City Council for paving and constructing storm sewers on certain streets and avenues, about 69,064 sq. yds. of paving. James J. Withrow is City Clerk.

HELENA, MONT.—Bids were received for improvements in District No. 35 as follows: Louis Johnson, $74,121; McMillan & Fowler, $75,245; Miracle-Tropp Co., $76,442; S. Birch Sons Constructing Co., $81,954. Charles W. Hilmeck is City Engr.

ST. JOSEPH, MO.—The Board of Public Works on June 5 awarded the contract for paving with brick Main St. to the YOUNG BROS. CONSTRUCTION CO., at $1.37½ per sq. yd.

KANSAS CITY, MO.—Bids are asked by the Board of Public Works until June 29, to grade Main St., from 23d St. to 29th St. When these improvements are completed and connection is made with the new viaduct over the tracks of the Kansas City Terminal Railway Co., Main St. will be open for traffic from the Missouri River to the city boundaries on the south. The cost of the grading will be about $100,000, the greater part of the expense to be borne by the adjoining property owners. The cut in places will be 40 ft. The point at which the grading will begin is at the south end of the new viaduct built and paid for by Main St. property owners. Part of the strip to be graded will lie at the entrance to the proposed new union depot building.

JEFFERSON BARRACKS, MO.—Bids are asked by Capt. Stanley H. Ford, Q. M., until 11 a. m., June 30, for constructing roads, walks, etc., at this post.

HOUSTON, TEX.—Bids will be received by the Magnolia Park Land Co., 912 Texas Ave., until June 28, for grading, shelling and draining Brays Boulevard in Magnolia Park. The work contemplated consists of approximately 17,635 cu. yds. of excavation, and will require 1,482 cu. yds. of shell, 96 lin. ft. of double-strength sewer tile, 25 cu. yds. of broken stone, 5 cu. yds. of sand and four barrels of cement.

DENISON, TEX.—We are officially advised that J. C. Feild, Feild Bldg., Denison, has been appointed engineer to take charge of improvements in Road District No. 1, Grayson County, Tex. Bonds for $250,000 to cover the cost of the proposed work are on sale. H. R. Wallace is County Audr.

DENVER, COLO.—Bids were received on June 7 by the Board of Public Works for West Denver Paving District No. 1. This district includes Wazee St., from Eleventh to a point half way between Thirteenth and Fourteenth, and Twelfth and Thirteenth Sts., from Wazee St. to the Rio Grande tracks. The streets are to be graded and paved with stone blocks. There were four bidders for the contract—Heckert & Muller, $21,591; Denver & Pueblo Construction Co., $22,604; J. Fred Roberts, $22,967; Dennis Gibbons Construction Co., $21,440.

SEATTLE, WASH.—The following bids were received on June 10 by the Board of Public Works for grading, filling, etc., on Westlake Ave. North, (a) longitudinal planking, (b) sheet piling: HOLT & JEFFERY, Hinckley Block, Seattle, Proposition 1, (a) $336,108 (awarded contract), (b) $338,028; Proposition 2, (a) $364,364, (b) $366,284; Proposition 3, (a) $332,997, (b) $334,917.

Grant Smith & Co. and Stillwell, Second and Bell Sts., Proposition 1, (a) $341,998, (b) $344,288; Proposition 2, (a) $376,993, (b) $379,283; Proposition 3, (a) $352,743, (b) $355,083.

The Board of Public Works has awarded the following contracts for street improvement: Market St., grading, ROWAN & ANDERSON, $5,616; North Broadway, grading and concrete walks, N. D. JOHNSON, $17,878; Fourth Ave., paving to HOLT & JEFFERY, Hinckley Block, $86,447; 20th Ave. South, asphalt paving, INDEPENDENT ASPHALT PAVING CO., Seattle Theater, $52,649; North 46th St., concrete walks, GREAT WESTERN FUEL CO., 2523 Fourth Ave., $9,728.

R. H. Thomson, City Engr., has reported the following estimated cost on street improvements: Market St., concrete walks, $4,400; Wabash Ave., planking, $3,300; Edmunds St., planking, $2,800; Orcas St., planking, $3,300; West Stevens St., concrete walks, $23,024; North and East 57th St., concrete walks, $12,788; East 65th St., concrete walks, $12,687; Waters Ave., grading, $89,000; West 60th St., concrete walks, $3,300; East 47th St., grading, $12,000; Rainier Ave., planking, $37,000; 15th Ave. Northeast, water mains, $11,700; 18th Ave. South, concrete walks, $45,000; 32d Ave. South, grading, $2,350; Lane St., concrete walks, $4,600; Crawford Pl,. grading, $8,000; 14th Ave. Northeast, planking, $1,300; 30th Ave. South, concrete walks, $10,200; Western Ave., planking, $19,000; Beacon Ave., asphalt paving, $93,000; Fourth Ave., paving, brick, $75,000; North 56th St., concrete walks, $21,300.

TACOMA, WASH.—Bids will be received until June 28, by George Anderson, City Clerk, for 5,780 sq. yds. of brick paving, 10,700 sq. yds. of concrete sidewalks, 9,952 ft. of curbs and gutters, 12,650 yds. of excavation, 21,700 yds. of fill and 3,800 cu. yds. of concrete for retaining walls.

PROSSER, WASH.—Bids will be received until June 29 by the State Highway Board, Olympia, Henry L. Bowlby, Secy., for macadamizing State Aid Road No. 14-58, otherwise known as the Euclid Road, Benton County. Henry L. Bowlby is Secy.

NORTH YAKIMA, WASH.—Bids will be received until June 29 by the State Highway Board Olympia, for macadamizing State Aid Road No. 60, otherwise known as the Sunnyside Mabton Road, Yakima County. Henry L. Bowlby is Secy.

SAN BERNARDINO, CAL.—The city has authorized the grading and paving of F St. and the construction thereon of cement curbs and gutters, and reinforced concrete culverts. Also to perform the same work on D, H, and Court Sts. Harry Allison is City Clerk.

SANTA BARBARA, CAL.—Bids will be received until July 5 by the County Board of Supervisors for the construction of the extension of Mountain Drive, in District No. 2. C. A. Hunt is Clerk of Board.

WHIPPLE BARRACKS (Prescott post-office,) ARIZ.—We are officially advised that bids were received by Lieut. C. G. Bartlett, Const., Q. M., on June 4, for furnishing labor and material required for the construction of roads, bridge, concrete curbing, gutters and walks at Whipple Barracks, Ariz. The contract for roads and bridge has been let to H. ROCKWALK, of Prescott, Ariz.; for walks, culverts and drains, to JOHNSON & SHEA. Total cost, $20,000.

LINDSAY, ONT.—Bids are asked by F. Knowlson, Town Clerk, until June 27 for about 6,950 sq. yds. of bituminous paving.

MANUFACTURING PLANTS.

(* *denotes that this work is advertised in Engineering News.*)

DOVER, N. H.—WHITON & HAYNES, John Hancock Bldg., Boston, Mass., have been awarded the contract for the construction of the storehouse for the Cocheco Department of the Pacific Mills at Cocheco, N. H. The storehouse is to be of mill construction, 162 x 322 ft. Plans call for metal window frames and wired glass windows for one-half of the building and two electric elevators of about two tons capacity each. Lockwood, Greene & Co., 93 Federal St., Boston, are Engrs.

MANCHESTER, N. H.—The Leighton Machinery Works will erect a 2-story building, 40 x 240 ft, to be located beside the railroad in East Manchester. The company manufactures knitting machines.

RICHFORD, VT.—The Quaker Oats Co. of Chicago, will begin work at once on a mill and elevator for the manufacture and storage of stock seed grain for the New England markets on the site of the plant destroyed by fire in October, 1908. It is expected that more than 200 HP. will be used, the contract guaranteeing 300 HP. It is also expected that later C. M. and S. R. Boright, who contemplate the developing of a plant of 1000 HP. at Stevens Mills, about three miles up the Mississquoi River from this town, will furnish the power. The site on which the new building will be erected is owned by the Canadian Pacific Ry. Co. The mill will be 100 x 400 ft, and will have a capacity of 150,000 bushels of grain.

FALL RIVER, MASS.—Incorporation has been effected by the Puritan Mills to manufacture and deal in all kinds of textile fabrics. The company has an authorized capital of $50,000. The officers are: Pres., Herman G. Myers; Clerk and Treasurer, Edwin N. Blinn. The directors have been authorized to purchase land and award contracts for a building, and it is expected that work on the structure will be started within a month.

ATHOL, MASS.—The Union Twist Drill Co., of Athol, is to erect a shop to be 140 x 60 ft., four stories, and cost about $50,000. It will be of brick, mill construction.

SPRINGFIELD, MASS.—Building operations will begin at once on the proposed mill for the Pelley Toilet Paper Co., to be located on the Highland Division tracks near King St., Springfield, Mass., and the company plans to be able to occupy the new quarters by Sept. 1. A building on the site at present will be remodeled and the new factory will be connected with it. It is expected that about 50 persons will be employed at the start. Electric power will be used. The company has a factory at Fulton, N. Y., employing about 30 hands.

LAWRENCE, MASS.—The B. F. SMITH CO., of Pawtucket, R. I., has been awarded the contract for the construction of the merino yarn mill at Lawrence, Mass., for William Whitman & Co., of Boston, Mass. The plans, which were drawn by C. R. Makepeace, of Providence, R. I., provide for a brick mill constructed building, about 350 x 700 ft., three stories high. The cost of the building is estimated at $275,000 and of the machinery at $350,000. The mill will have a capacity of about 35,000 lbs. per week.

NEW BEDFORD, MASS.—The Sharp Mfg. Co. is the name of a newly incorporated manufacturing company, which is to be located at the corner of Rockdale Ave. and Dartmouth St., New Bedford, according to the Boston "Commercial Bulletin." The company will have a capital of $1,500,000, which is nearly all paid in, and has organized with the following officers: Pres., Joseph T. Kenney: Vice-Pres., Charles P. Curtis, of Boston; Treasr. and Gen. Mgr., Arthur R. Sharp, of Boston; Directors, the above and Frank Brewster, and William H. Bent, of Taunton. Robert Schofield will be Supt. The mill will manufacture fine combed yarns. Plans have been practically completed and will be submitted to contractors for bids at once. The plans contemplate an 80,000 spindle plant, five stories, brick, mill construction, about 250 x 50 ft., with monitor roof.

NORTH ADAMS, MASS.—The Strong-Hewatt Co., of Briggsville, woolen manufacturers, has announced its intention to begin the erection of a 4-story addition to the large mill and to add another story to the present plant.

The North Adams Industrial Co., was organized recently at North Adams, Mass., with the following incorporators: R. A. Hewatt, C. E. Whitney, C. W. Ford, C. H. Cutting, A. Hastings, W. E. Lonergan, W. P. McCraw, J. P. Wall, F. S. Richardson, A. W. Chippendale, J. H. Waterhouse, G. A. MacDonald, W. E. Penniman and W. H. Pritchard. It was voted to waive the legal notice of seven days and to proceed at once to the election of directors. Those elected were G. A. Hastings, R. A. J. Hewatt, F. E. Carlisle, Myron L. Keith, Eldon B. Keith, W. E. Lonerggan, C. T. Phelps, A. W. Chippendale, and F. S. Richardson. George A. MacDonald was elected Treas. and A. W. Chippendale, Clerk. The directors then elected George A. Hastings, Pres. and F. S. Richardson, Vice-Pres. Plans have been prepared and the contract for the factory will soon be let, when work on the construction will be started.

WEBSTER, MASS.—We are officially advised that the Stevens Linen Co., of Webster, Mass., is having plans prepared by Charles T. Main, Mill Engr. and Archt., 201 Devonshire St., Boston, Mass., for additions and alterations to its plant. There will be a hackling and carding building, 200 × 70 ft., two stories, with elevator tower at the southern end with a runway connecting to present Mill No. 2. Two buildings will be torn down to make room for this building. South of present Mill No. 2 will be erected a spinning and weaving building, 195 × 78 ft., four stories and basement. These buildings will be of standard slow burning mill construction, the exterior wall of grey brick to match as nearly as possible the present buildings. A section of No. 3 Mill, 46 ft. long, will be torn down and a blacksmith shop of one story over a very high basement will be erected in its place. The west wall of the engine room will be torn out and a steam turbine room built on. The boiler house is to be altered and extended to accommodate two additional boilers and the coal pocket extended to take care of the additional requirements. The office building is to have an additional story and will be connected by a bridge to the weaving and spinning building. Plans will be ready for bidders soon. Noted last week.

NEW YORK, N. Y.—William A. White & Sons have leased for Trinity Corporation to the Mirror Candy Co., Mengo L. Morgenthau, Pres., the property on the southwest corner of Hudson and Morton Sts. The lease is for 2[illegible] years at an aggregate rental of about $[illegible]0,000. On the site, which is 125 × 125 ft., the Trinity Corporation will build for the lessees an 8-story fireproof factory.

BATAVIA, N. Y.—We are officially advised that the ALEXANDER, SHUMWAY & UTZ CO., 16 State St., Rochester, has been awarded the contract for the Roberts Bros. Mills at Batavia, N. Y. All the buildings are to be of reinforced concrete and to consist of a mill building, five stories, warehouse, three stories, and grain storage bins with capacity of 50,000 bushels. The capacity of the mill is to be 200 bbls. per day.

NIAGARA FALLS, N. Y.—We are officially informed that the TURNER CONSTRUCTION CO., 11 Broadway, New York, has been awarded the general contract for constructing the following buildings for the Hooker Electro Chemical Co., Niagara Falls, N. Y.: Cell house and new 4-story bleach house; rebuilding 4-story bleach house including bins; rebuilding repair shop; rebuilding pump house. These buildings are to be reinforced concrete. Work will be started at once.

HUDSON, N. Y.—At a recent meeting of the stockholders of the Bath Knitting Mills it was decided to double the capacity of the plant during the coming season. The company was incorporated in 1907, with a capital of $13,000, to manufacture flat and mesh underwear and union suits.

ROME, N. Y.—F. W. Kirkland, Arch., has completed plans and is receiving bids for an insulated wire plant to be erected by the Rome Electrical Co., George A. Clyde, Gen. Mgr., comprising a 1-story factory, 80 × 120 ft. of brick and steel and a power-house, 42 × 22 ft.

BUFFALO, N. Y.—The Melographic Roll Co., Jacob Hoyl, Pres., is having plans prepared for a brick and steel factory, 51 × 160 ft., seven stories high, to be erected at Jewett Ave. and the New York Central R. R. Belt Line.

BURLINGTON, N. J.—The contract for the erection of the first buildings of the silk mills in the Farner Tract has been awarded to JAMES LANNING of Trenton, N. J., and work on the buildings will commence within a few days. The plant will employ at the outset about 400 hands, and it is expected to increase this force to 1,000.

HARRISBURG, PA.—The Pennsylvania R. R. Co., will enlarge the tire plant in the Harrisburg yards which will be used for removing and putting on tires on the driving wheels of locomotives. The plant was installed in the yards about two years ago and consists of a furnace, which heats the tires so they can be removed easily. Joseph Davis is Master Mechanic, Harrisburg.

SCOTTDALE, PA.—The West Overton Distillery Co., of Scottdale, has awarded a contract to the BOLINGER-ANDREWS CO., Empire Bldg., Pittsburg, for the erection of a 5-story brick and steel bottling plant.

PHILADELPHIA, PA.—The A. Mecky Co., 3631 Smedley St., which purchased the lot at 17th St., and Allegheny Ave., adjoining the Bell Telephone building recently, is to build a 2-story manufacturing plant, 100 ft. square, to cost about $25,000, built upon it by HENRY E. BATON, 1221 Arch St., from plans by Stearns & Castor, Archs., Stephen Girard Bldg.

A contract has been awarded to JOHN R. WIGGINS & CO., Heed Bldg., to erect a $75,000 cold storage building, 90 × 150 ft., for the Philadelphia Electric Co.

BALTIMORE, MD.—The contract for the erection of the new factory and warehouse of the Falconer Co., which is to cover the lot recently purchased by it from the Savings Bank of Baltimore on the northwest corner of Gay and Water Sts., has been awarded to J. O. HEDERMAN, of Baltimore, who will begin the work at once. The plans have been prepared by Parker, Thomas & Rice, Union Trust Bldg., Baltimore. The erection will be under the supervision of the architects and Charles L. Reeder, Consult. Engr. The frontage on Gay St. is about 80 ft., of which 70 ft. will be occupied by the building, which will have a depth on Water St. of 125 ft., the remainder being left on the north side for light and air.

DURHAM, N. C.—The Golden Belt Mfg. Co., manufacturer of cotton cloth and bags from this cloth, will extend its facilities for bag manufacture. It will erect an addition costing $30,000. This will be a 75 × 120 ft. structure, three stories high, of mill construction. Contract for its erection has been awarded to SALMON & SALMON, of Durham, N. C., where the Golden Belt plant is located.

SUMMERVILLE, GA.—The Berryton Mills Co. will be organized for the purpose of taking over and developing to its full possibilities the Raccoon Mills property at Raccoon, Ga. It will be formed by John M. Berry, H. R. Berry, both of the Rome Hosiery Mills at Rome, Ga.; C. R. Porter, J. H. O'Neill, J. A. Glover, Thompson Miles, W. W. Woodruff, R. W. Graves and others of Rome. The Messrs. Berry are the principals and will manage the new enterprise. They have secured the Raccoon property, including a 5,000-spindle yarn mill, 630 acres of land, 56 cottages for operatives, grist mill, flour mill, warehouses, etc. Their plan is to expend $80,000 for repairing all the buildings, installing new machinery, etc., and to be ready for operation within thirty days. The new machinery is to include equipment for knitting the Raccoon yarns into hosiery. The new company will be capitalized at $150,000 and it is proposed to change the name of Raccoon to Berryton.

COLUMBUS, GA.—The Meritas Mills Co., of Columbus, Ga., has awarded the contract for the erection of its buildings to T. C. THOMPSON & BRO., of Birmingham, Ala., and Charlotte, N. C. The contract calls for the erection of the main building (two stories of brick and with weave shed), power-house, seven warehouses, cottages for operatives, etc. Construction will begin at once and will be pushed as rapidly as possible. The company's president is Alvin Hunsicker, Gen. Mgr. of the Standard Oilcloth Co., 320 Broadway, New York. The Meritas plant will have an initial equipment of about 10,000 spindles and 170 looms for manufacturing cloth which will be shipped to the Standard mills for conversion into oilcloth. It will be arranged for increasing to 25,000 spindles and 425 looms. Electricity will be the power. Fred. S. Hinds, 19 Milk St., Boston, Mass., is the Arch.-Engr.-in-Charge.

PENSACOLA, FLA.—The Merchants' Candy & Cracker Co., is to be the name of an industry to be located here. St. Louis capitalists arriving here to-day to make arrangements for a site in which will be installed machinery, etc.

RAGLAND, ALA.—W. T. Brown, of Ragland, Ala., has decided to organize the Brown Cotton Mills with a capital stock of $200,000 for the installation of a 10,000-spindle plant. Arrangements will be made at once for the erection of the necessary buildings and the machinery has been purchased for spinning. A 500-HP. steam plant is to drive the mill and coal for the boilers will be mined within 200 ft. of the boiler plant.

BRISTOL, TENN.—Charles M. Warner, sugar refiner, Syracuse, N. Y., is at work here on a project to establish a cotton mill near the city, so as to take advantage of the power to be derived from the Holston River. Mr. Warner states that the proposed mill will give employment to from 2,000 to 3,000 persons. The plant will be established on the line of the Holston Valley R. R., in which Mr. Warner is interested.

GREENSBURG, IND.—The Bromwell Brush & Wire Goods Co. is preparing to build an addition to its factory. Estimated cost, $40,000. Bids will be asked for as soon as plans are approved.

SOUTH BEND, IND.—The H. G. CHRISTMAN CO., of this city, has been awarded the contract to erect the proposed foundry at the Oliver Chilled Plow Works. The building will be of steel and brick construction, 350 ft. long × 130 ft. wide. It will be one story high and will contain 45,500 sq. ft. of floor space. The estimated cost is 530,000.

DETROIT, MICH.—R. E. Raseman, Penobscot Bldg., is preparing plans and specifications for 1, 2 and 3-story factory buildings, for the Kelsey Wheel Co., John Kelsey, Secy., 277 Monroe Ave. The buildings will be 30 × 145, 50 × 60, 20 × 50, 161 × 42 and 80 × 160 ft., respectively, and of stock brick, mill construction, with composition roof, galvanized iron skylight and cornice, structural iron work and electric fixtures.

Baxter & O'Dell, Hammond Bldg., are taking figures on a boiler house for the Brush Runabout Co., F. A. Harris, Secy., 12 Baltimore Ave., West stock brick, bedford stone, composition roof, structural iron and electric fixtures will be used in construction.

Mildner & Eisen, Hammond Bldg., have been commissioned to prepare plans for a bottling works building for Kaiser & Schmidt, 407 Wilkins St. The architects will take figures the last of June.

C. F. J. Barnes, Tolsma Bldg., has let the following contracts for the Michigan State Agricultural Society's 2-story machinery hall, 60 × 300 ft.: Structural iron work let to C. AMOS CO., 9 Orchard St; reinforced concrete work to the ACME CONSTRUCTION CO., 127 Townsend Ave.; carpentry to JOHN IRWIN, 439 Mack Ave.; composition roofing to JOHN MANDELL, 486 McClellan Ave.; painting to H. A. OTTO, 202 Popular St. Cost, $40,000. J. E. Hannon, Secy., 501 Bolles Bldg.

Baxter & O'Dell, Hammond Bldg., let the following contracts on June 1 for the 1-sty factory building, 40 × 150 ft., for the American Metal Screen Co., R. L. Hughes, Secy., 722-6 Grand River Ave.: Structural iron work to WHITEHEAD & KALES, Beecher Ave., and M. C. R. R.; masonry to JAMES HICKEY, 854 Champlain St.; carpentry to A. R. ARMSTRONG, Willis Ave.; composition roofing to the EAGLE CORNICE & ROOFING CO., 75 Fort St., West; plumbing to OTTO WURM & CO., 50 Adams Ave., West; plastering to M. TINNEY, 16 Celia St.

DETROIT, MICH.—Smith, Hinchman & Grylls, Washington Arcade Bldg., have been commissioned by the Roe-Stephens Mfg. Co., J. Palmer Stephens, Secy., Clayton Ave. and M. C. R. R., to prepare plans and specifications for the factory of stock brick with composition roof, structural iron and electrical fixtures.

J. L. Miller, Geobel Bldg., Detroit, is preparing plans and specifications for a 2-story factory building, 42 × 175 ft., for the Detroit Auto Specialty Co., Joseph F. Maniere, Secy., 909 Greenwood Ave. Stock brick, Bedford stone, composition roof, structural iron, cement floors and electric fixtures will be used. Cost, $18,000.

Albert Kahn and E. Wilby, Trussed Concrete Bldg., are taking figures on a 1-story forge building, 400 × 70 ft., for Dodge Bros., 264 Jefferson Ave. Frame, steel, composition roof, structural iron and electric fixtures will be used. Cost, $150,000.

The United States Motor Co., O. J. Mulford, Gen. Mgr., 83 Fort St. West, have purchased the business of the Gray Motor Co. and will make additions to the plant, adding about 150,000 sq. ft. of floor space.

GRAND RAPIDS, MICH.—The Grand Rapids Cigar Box Co. is having plans prepared for a 4-story factory building, 55 × 100 ft., located at Ellsworth and Williams Sts. Cost, $50,000.

The Masey Co., South Division St., has let the general contract for its 4-story addition to the present factory building to HAUSER, OWEN & AMES, Ottawa St. Cost, $30,000.

CHICAGO, ILL.—McKinney, Hodge & Manss, 164 Dearborn St., have negotiated the sale for John A. Spoor and A. G. Leonard, Trustees of the Central Manufacturing District, to the Cyphers Incubator Co., of Buffalo, of 43,500 ft. of land in West 37th St.; between Ashland Ave. and Iron St. Plans for a building to cost $75,000 are being made. It is estimated that the plant will handle an average of 12,000 bushels of grain daily, to be manufactured into chicken food.

CHICAGO, ILL.—Burke & James, manufacturers and jobbers of photographic supplies, will soon occupy a building which is to be erected at the northwest corner of Ontario St. and Fairbanks Court from designs by Hill & Woltersdorf, Archs., 70 La Salle St. The building will cover 194 × 100 ft., acquired through the Bowes Realty Co. A light court of twelve feet is to be on the west, and in the rear an 18-ft. private alley, from which a recessed shipping court will connect with the freight elevators.

The Fred Strauss Dye Works contemplates the erection of a factory building on the recently acquired property at the southeast corner of Sheffield Ave. and Marianna St., which will cost about $125,000. Paul Gerhardt is Mill Engr. and Arch., Schiller Bldg.

WEST ALLIS, WIS.—The Wisconsin Motor Mfg. Co., has purchased a tract of land at West Allis and will erect a plant here. The main building will be 112 × 288 ft., the power plant, 50 × 50 ft., and the office building, 40 × 50 ft. All buildings will be constructed of reinforced concrete and brick and will be fireproof. The plans call for an expenditure of nearly $150,000.

The Milwaukee Machine Tool Co. has purchased land at West Allis and will erect a plant costing about $50,000

MILWAUKEE, WIS.—The CON. RAULF JR., CONSTRUCTION CO., has been awarded the contract for the proposed $150,000 building to be erected at Michigan and Jackson Sts., by the Stroh Die Molded Casting Co. The structure will be eight stories high, 110 × 120 ft. of reinforced concrete, with glazed terra cotta facing.

H. J. Esser, Arch., Camp Bldg., is taking figures for the erection of a machine shop for the National Brake & Electric Co., to be of steel and brick construction and fireproof. Cost, $100,000. The same concern will erect a $25,000 warehouse.

MILWAUKEE, WIS.—Leiser & Holst, Archs., Germania Bldg., are preparing plans for a 2-story brick store building to be built by the Jung Brewing Co. Cost, $12,000.

The Hummel & Downing Co., paper box manufacturers, are having plans prepared for a factory building to be built on the Milwaukee River at the foot of Bradford St. It will cost $350,000. The building will be constructed of reinforced concrete and will be 150 × 400 ft. Arrangements are being made to have a side track built to connect with the site.

MILWAUKEE, WIS.—The International Harvester Co. has purchased property on the south side for $25,000 and it is understood that an addition will be built to the company's local plant.

The Charles A. Krause Milling Co. has purchased more property with the intention of erecting an addition to its plant.

BELOIT, WIS.—The Fairbanks Morse Co., will erect four buildings in addition to its plant here, 70 × 170, 50 × 100, 70 × 200 and 160 × 190 ft., respectively. Plans are being prepared also for a power-house.

JANESVILLE, WIS.—WILLIAM FITZGERALD, of Beloit, Wis., has been awarded the contract for erecting the addition which is to be built to the plant of the Janesville Machine Co. The contract price was approximately $20,000.

MANITOWOC, WIS.—It is reported that the Aluminum Castings Co., which recently took over the local plant of the Manitowoc Aluminum Foundry Co., will increase the size of the plant. No definite plans have yet been made public.

RACINE, WIS.—Plans have been completed for a foundry building which will be erected by the J. I. Case Threshing Machine Co., of this city. The foundry will be located south of the city.

H. J. Rasmussen, formerly with the Holbrook-Armstrong Co., is organizing a foundry company in the city. He plans to erect a foundry building as soon as the organization has been completed.

FERGUS FALLS, MINN.—A woolen company has been incorporated at Fergus Falls, Minn., with a capital of $100,000, and it is reported that a new plant with 1,344 spindles will be erected at once at a cost of $20,000. Gunder Bartelson is Pres.

CORPUS CHRISTI, TEX.—S. J. Stanzel, of Temple, Tex., expects to complete arrangements soon for establishing an iron foundry here.

SAN ANTONIO, TEX.—The Gramm Motor Car Co., of Lima, Ohio, contemplates establishing a factory here for the manufacture of auto trucks. An investigation of the situation is being made by Frank E. Lamb, Secy. and Gen. Sales Mgr., of the company. A tentative proposition looking to the establishment of the proposed factory has been made to the Chamber of Commerce.

CLINTON, OKLA.—It is stated that Messrs. Blackwilder, Holbrook, Martin & Stalford, of Hickory, N. C., have agreed to invest $180,000 in the erection of a knitting mil here. A bonus of $35,000 in aid of the enterprise will be donated by Clinton citizens. Two factory buildings, an office building and 25 cottages for employes will be erected.

ARTESIA, N. MEX.—The Artesia Alfalfa Mill will be rebuilt at once on a larger scale. A company has been organized with a capital of $20,000, $15,000 of which will be invested in machinery and buildings. J. O. Kuyrkendall will be Mgr.

BARSTOW, CAL.—The Barstow Utility Co., will begin soon the erection of a steam laundry. An electric lighting plant in connection with same is contemplated. W. W. Brison, Jr., is Gen. Mgr.

LOS ANGELES, CAL.—The Wilson & Hausen Co., manufacturers of furniture, 1620 South Alameda St., have awarded a contract to MORRIS HURWITZ, 412 Bryson Bldg., for the erection of a 3-sty brick warehouse and factory building, 80 × 80 ft., on Mission Road. Cost, $12,790. A. W. Rieve, Bryson Bldg., prepared the plans.

LOS ANGELES, CAL.—The A. J. Koll Planing Mill Co., 335 East Second St., will establish a factory on Colyton St. It is to be a 3-story brick building, 100 × 80 ft., of heavy mill construction; also a 1-story wing, 50 × 120 ft. The present quarters of the company has been leased to the Bass-Hueter Paint Co. and will be remodeled into a paint factory.

The VILTER MFG. CO., of Milwaukee, Wis., has been awarded contract for erecting a 35-ton ice making tank and apparatus for C. R. Eager (Maier Packing Co.). Cost, $13,500.

The Los Angeles Ry. Co. will erect a car barn on 55th St. and Moneto Ave., 900 × 118 ft., with reinforced-concrete walls, floor and roof finestra windows, to be used as a shop for car painting. Howard E. Huntington is Gen. Mgr.

LOS ANGELES, CAL.—The American Art Leather Co. has awarded contract to O. E. WEAVER, 311 Pavillion Pl., for the erection of a 2-story brick factory building on San Pedro St. Cost, $5,950. Roy L. Kent is Arch.

SAN DIEGO, CAL.—Julius Harksell, 355 Eighth St., will erect a 2-story brick factory building at the corner of Tenth and K Sts., for the manufacture of store and office fixtures. The building will be 50 × 100 ft., with hollow tile partitions, composition roof and brick foundation.

ANAHEIM, CAL.—Articles of incorporation of the Anaheim Sugar Co., have been filed by H. S. Hadsell, of Santa Ana, Cal., promoter. There is a capital stock of $750,000, with $50,000 subscribed by residents of Southern California. The directors are C. N. Warner, owner of the Warner Sugar Refinery, of Syracuse, N. Y., Arthur R. Peck, of Syracuse, N. Y.; C. H. Perkins, of Newark, N. J., W. H. McLaughlin, of Anaheim. Hon. Richard Melrose, Attorney; I. S. Richards, Mgr. of the Pacific Coast Biscuit Co., Los Angeles, and Otto Rust, Pres. of the Anaheim City Council. The company's engineer will begin at once laying out the ground for the plant and will begin the construction of the buildings. The factory will be a 600-ton plant with a pulp drying plant and Osmose process.

WINDSOR, ONT.—The Regal Motor Car Co., E. F. Peake, Mgr., 758 Woodward Ave., has secured a site in Windsor and will erect a 2-story automobile factory, 300 × 60 ft., at a cost of $30,000.

MONTEREY, MEX.—The Compania Manufacturara de Muebles la Malinche, S. A., is preparing to enlarge its furniture factory here. The company has a 50-year franchise from the government for the manufacture of furniture. It will install a large amount of new machinery.

MISCELLANEOUS CONTRACTS.

(* *denotes that this work is advertised in Engineering News.*)

U. S. RECLAMATION SERVICE.—All news concerning canal and irrigation projects, etc., will be found under Water Supply—Irrigation.

DITCH.—Red Lake Falls, Minn.—Bids will be received until June 24 by A. A. Latendresse, County Audr., for excavating about 31,554 yds. of ditch No. 46. Estimated cost, $4,530.

FOUNTAIN.—San Diego, Cal.—The SIMPSON-PIRNIE GRANITE CO. has been awarded the contract to erect the Louis J. Wilde electric fountain. Cost, $10,000. Irving J. Gill is Arch.

WILLOWS.—New Orleans, La.—Bids will be received until 11 a. m., June 24, by Lieut. Col. Lansing H. Beach, Constr. Q. M., U. S. A., New Orleans, for furnishing willows at South or Southwest Pass, Mississippi River.

LIGHTHOUSE SUPPLIES.—Tompkinsville, N. Y.—Bids will be received until 2 p. m., July 12, at the office of the Lighthouse Inspector, Tompkinsville, N. Y., for furnishing and delivering supplies for the lighthouse establishment.

DRAIN.—Boston, Mass.—Bids will be received until July 9 at the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for a drain at the U. S. Navy Yard, Boston, as per Specification No. 1722. Appropriation available, $3,871.

REBUILDING STEAMER.—New York, N. Y.—Bids will be received by the Department of Public Charities until 2.30 p. m., June 30, for furnishing all the labor and materials required for rebuilding wood steamer "William H. Wickham."

*DRAINAGE SYSTEM.—Greenwood, Miss.—Bids will be received until 8 p. m., July 5, by the Mayor and Board of Aldermen for drainage system. R. H. Hicks, City Clerk. For approximate quantities, etc. See advertisement in this issue.

CEMENT.—Fort Leavenworth, Kan.—Bids were received on June 10 by Maj. Thos. H. Slavens, Const. Q. M., U. S. Military Prison, Fort Leavenworth, for furnishing 10,000 bbls. of Portland cement were rejected. New bids will be received until June 25 for 2,000 bbls.

*REMOVING ROCK, GRAVEL, ETC.—New York, N. Y.—Bids will be received by Col. Wm. T. Rossell, Corps Engrs., U. S. A., 39 Whitehall St., until noon, July 22, for removing marl, gravel, rock, hard pan and boulders from Arthur Kill, N. Y., and N. J.

DUMP, FILL-IN.—New York, N. Y.—Bids will be received until noon, June 27, by the Department of Docks and Ferries for the right to dump and fill in behind the bulkhead wall recently built at the foot of Oliver St., East River, on part of the James Slip section on the East River, Boro. of Manhattan.

CULVERT.—Kansas City, Kan.—Bids will be received until June 27 by the Board of Commissioners of Wyandotte County, at Kansas City, for constructing a steel reinforced concrete culvert on the county line between Leavenworth and Wyandotte counties. Frank M. Holcomb is County Clk., Kansas City.

FIRE ENGINE.—New York, N. Y.—Bids were received on June 13 by R. Waldo, Fire Comr., for furnishing and delivering all the labor and materials required to make additions and alterations to one second-size Nott fire engine, Boro. of Manhattan. Contract was awarded to the NOTT FIRE ENGINE CO., Minneapolis, Minn., at $4,500.

STEEL BARS.—Atlanta, Ga.—Bids will be received by the Department of Justice, Office of Superintendent of Prisons, Washington, D. C., until 10 a. m., July 8, for furnishing and delivering at the United States penitentiary at Atlanta, Ga., steel bars for window gratings in the sun, dispensary and operating rooms of the hospital building.

SEAWALL.—Newport, R. I.—Bids were received as follows on June 18 by the Bureau of Yards and Docks, Navy Dept., Washington, for constructing a rubble seawall at the U. S. Naval Hospital, Newport: Darling & Slade, 56 North Main St., Fall River, Mass., $3,689; M. McManus Contracting Co., 414 Wood St., Philadelphia, Pa., $3,282.

PNEUMATIC TUBE SERVICE.—New York, N. Y.—Bids were received as follows on June 20 by the Supervising Architect of the Treasury, Washington, for installing an interior pneumatic tube service in the New York Custom House: Interstate Pneumatic Tube Co., New York, $34,960; Lamson Consolidated Store Service Co., Boston, $44,467.

DREDGING.—New Orleans, La.—Bids were received on June 10 by Col. Lansing H. Beach, Corps Engrs., U. S. A., New Orleans, for dredging at Chefuncte and in Bogue Falia Rivers, La. The Jahncke Navigation Co., New Orleans, La., lowest and only bidder; approximate amount of dredging to be done 30,000 cu. yds.; price 19.5 cts. per cu. yd.

*FOUNDATIONS, PIER EXTENSIONS.—Wheeling, W. Va.—Bids were received as follows on June 15 by Capt. F. W. Altstaetter, Corps Engrs., U. S. A., for constructing Poiree dam foundations and extensions of piers for Dam No. 13, Ohio River: The Ohio River Contract Co., Evansville, Ind., $39,029; Curtis, Shumway & Deane, Portsmouth, Ohio, $58,342.

TESTING MATERIALS.—Cleveland, Ohio.—Bids were received by the Board of County Commissioners on June 8 for the testing of materials for one year beginning June 15, 1910, in accordance with the form of contract and specifications to be furnished by Frank R. Lander, County Engr. Contract was awarded to the INDUSTRIAL TESTING LABORATORY, Cleveland, at $1,825.

HEADSTONES.—Boston, Mass.—Bids were received on June 15 by Depot Q. M., 263 Summer St., Boston, for furnishing the quartermaster's department, U. S. Army, 20,000 white marble headstones, conforming to existing standard and specifications. Quantity specified subject to increase or decrease of not to exceed 50%. Wm. H. Gross and M. H. Deely, of Lee, Mass., were lowest bidders at $2.60 each.

*WHARF—Richmond, Va.—Bids received on June 7 by the Committee on James River Improvements, at the office of Chas. E. Bolling, City Engr., for constructing a pile bulkhead wharf along the east shore of James River, from Gillie's Creek to Nicholson St., and for deepening river bed alongside said wharf to channel were returned unopened. New bids will be received until 4 p. m., July 5, for this work.

DRAINAGE.—Clinton, Ill.—Bids will be received until June 25 by the Drainage Commissioners of Creek Union District No. 1, towns of Creek and Friends Creek, Counties of De Witt and Macon, at the office of the County Clerk at Clinton, for constructing the main drainage channel in said district, to be about four miles in length and requiring the excavation of about 53,378 cu. yds. of dirt to be moved 8 ft. from lines of the ditch.

DUMPING BOARDS.—New York, N. Y.—Bids will be received by the Department of Street Cleaning until noon, June 30, (1) for furnishing all the labor and materials required for the construction of a covered dumping board and runway on the pier at the foot of West 97th St.; (2) for furnishing all the labor and materials required for the construction of a dumping board and runway on the pier at the foot of West 134th St.

FIRE HOSE.—New York, N. Y.—The H. W. Johns-Manville Co., 100 William St., was the only bidder under the specifications on June 16 for furnishing and delivering to the Fire Department 30,000 ft. of 2½-in. rubber fire hose in Boros. Brooklyn and Queens, 20,000 ft. of 2½-in. rubber fire hose in Boros. Manhattan, Bronx and Richmond, and 10,000 ft. of 3-in. rubber fire hose in Boros. Manhattan, Bronx and Richmond. The price was not announced.

STONE.—New Orleans, La.—Bids were received as follows on June 13 by Lieut. Col. Lansing H. Beach, Corps Engrs., U. S. A., New Orleans, for furnishing and delivering about 10,000 cu. yds. of stone at South Pass and Southwest Pass, Mississippi River (per cu. yd.): Richard M. Murphy, New Orleans, $3.90; John Riess, New Orleans, $3.95; Oscar F. Barrett, Cincinnati, Ohio, $3.95; C. C. Huthmacher, Grand Tower, Ill., $3.95; Zeb Ward, Little Rock, Ark., $3.95.

SUBWAY DUCTS—New York, N. Y.—Bids were received as follows by the President, Boro. Richmond, on June 21, for furnishing all the labor and materials required for constructing subway ducts and appurtenances in Jay St., from Richmond Terrace to South St. and other streets, together with all work incidental thereto: Lord Construction Co., 203 West 40th St., $8,310; G. N. Guest, $13,507; Jos. Johnsons Sons Co., $13,412; John E. Donovan, $8,926.

PIERS.—New Orleans, La.—Bids were received on June 14 by the Board of Commissioners of the Port of New Orleans, Hibernia Bank Bldg., for the construction of reinforced concrete foundation piers for the Branch M. King Shed, Eighth Harmony Shed No. 2, Sixth St. Shed, Third St. Shed and the Soraparu St. Shed. A. C. Bell, Engr. Contract was let to JAS. G. CALLAHAN, 1535 Tchoupitoulas St., New Orleans, at $11.23 per cu. yd., for 720 cu. yds. of concrete.

*BARGE CANAL.—Albany, N. Y.—Bids are asked by F. C. Stevens, Supt. Public Works, until noon, July 19, for Barge Canal Contract No. 62, calling for the improvement of the Erie Canal from the west line of Monroe County to the east end of Contract No. 9 at Eagle Harbor, Orleans County; length of contract, 14.15 miles. The engineer's estimate is $2,151,470. Included in the work is the construction of many new culverts, waste weirs, spillways and bridges. Frank M. Williams is State Engr.

TILE DRAIN.—Deland, Ill.—Bids were received by J. B. Rinehart, Clk. Drainage Bd. Comrs., Drainage District No. 4, Town of Goose Creek, at Deland, on June 17, for the following work: Furnishing, hauling and laying 16,900 ft. of 27 to 12-in. tile; all tile above 18 ins. in diameter to be salt glazed, vitrified, first-class drain tile; all tile, 16-in. and smaller to be red shale tile, first-class quality. W. J. Day, Engr., Bement, Ill. Contract was awarded to ARTHUR BIRT, 1643 East Main St., Decatur, Ill., at $10,773.

DITCH, ETC.—Burlington, Iowa.—Bids were received on June 9 at the office of the County Auditor for constructing 205,200 ft. of 80, 60, 40, 20, 10 and 8-ft. ditch, requiring 1,475,550 cu. yds.; also 49,350 ft. tile drain, from 24 to 10 ins. Harman Engineering Co., 120 Fredonia Ave., Peoria, Ill., are Engrs. Contract was awarded to A. R. PUTNAM, Valparaiso, Ind., as follows: Section 4, about 598,100 cu. yds., at 6 cts. per cu. yd.; Sect. 5, 430,900 cu. yds. at 5.8 cts.; Sect. 6, 206,300 cu. yds. at 6 cts.; Sect. 7, 122,300 cu. yds. at 8 cts.

SUPPLIES.—Washington, D. C.—Bids will be received at the Bureau of Supplies and Accounts, Navy Department, Washington, D. C., until June 28 as follows: Puget Sound, Wash., Schedule 2566, two motor-driven centrifugal drainage pumps; Brooklyn, N. Y., Schedule 2577, twelve sets of wireless telegraph apparatus; Hingham, Mass., Schedule 2578, a standard-gage compressed-air locomotive, an accumulator, and supplying, installing and testing outside pipe lines and changing stations. Application for proposals should designate the schedules desired by number.

STEAMER.—Newburgh, N. Y.—Benjamin B. Odell, Pres. of the Central Hudson Steamboat Co., has signed a contract with the HARLAN & HOLLINGSWORTH CO., of Wilmington, Del., for the construction and delivery prior to April 1, 1911, of a steel propeller steamer to be placed on the Newburgh, New York, route of the line, supplanting the Central Hudson and Marlborough. The boat will be the largest of the fleet of 10 craft. It will have four decks, be 280 ft. long, carry 3,100 passengers, and of 1,600 tons burden. The boat is scheduled to run 20 miles an hour.

DREDGING—Trenton, N. J.—The STANDARD ENGINEERING CO., 11 Pine St., New York, has been awarded the contract for dredging a channel between Oyster Creek thoroughfare and Main Marsh thoroughfare, Cape May County, part of the inland waterway. The company's bid was for 10.35 cts. a cu. yd., and the work will require the removal of more than 500,000 cu. yds. of material. Because of a technical error in one of the bids the awarding of the contract for dredging between Hereford Inlet and Townsend's inlet was postponed, and new bids wil be received on this work on July 19, by the Commissioners of Inland Waterways.

HARBOR WORKS.—A report from an American Consul in the West Indies states that a certain colonial government in that region intends to open a local harbor so as to encourage the entrance of larger vessels than are accustomed to touch there. The budget for 1911 includes for that purpose about $26,000. The contract will be awarded by the colonial government and contractors should get in touch with an official whose name is given in the report. Correspondence may be in Dutch or English. The work calls for mud, earth and rock excavation to widen the entrance. For addresses and details apply to the Bureau of Manufactures, Dept. of Commerce and Labor, Washington, D. C. Refer to file No. 5083.

WAREHOUSES, HARBOR AND RAILWAY IMPROVEMENTS.—A certain municipality in a European country contemplates the construction of 30 fireproof warehouses of various types, 20 of which are to be 56 by 119 by 28 ft. high, and are to be constructed in such a manner that if necessary an extra story may be added. The consular officer submitting the report states also that in connection with certain harbor improvements there will be a demand for narrow-gage railways, turntables, and cranes. All communications should be addressed to the mayor of the municipality, and correspondence may be in English. In applying for information or addresses refer to file No. 5063, at Bureau of Manufactures, Dept. Commerce and Labor, Washington, D. C.

*DRAINAGE CANALS—Tallahassee, Fla.—Bids were received by the Board of Drainage Commissioners, Tallahassee, on June 15, for excavating five drainage canals in the Everglades. The aggregate length of these canals is 235 miles and their construction requires the excavation of approximately 18,000,000 cu. yds. of earth and 6,000,000 cu. yds. of rock. J. O. Wright, is Ch. Drainage Engr. Bids were as follows: The FURST-CLARK CONSTRUCTION CO., Fidelity Bldg., Baltimore, and Galveston, Tex., earth, 8.4 cts. per cu. yd., rock, 20.2 cts. per cu. yd. (awarded contract); North American Dredging Co., Galveston, Tex., earth, 8.95 cts., rock, 21 cts.; John F. Cogan, New York, earth and rock, 14 cts.; Southern Dredging Co., Mobile, Ala., earth 12 cts., rock 25 cts.; Curtis, Shumway & Deane, Portsmouth, Ohio, earth, 14 cts., rock, 21 cts.

U. S. POSSESSIONS.

(**Denotes that this work is advertised in Engineering News.*)

CRANE, STEEL PLATES—Panama.—Bids will be received until June 28 by Capt. F. C. Boggs, Corps Engrs., U. S. A., Genl. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for locomotive crane, steel plates and lumber, as per circular No. 589.

ELECTRICAL EQUIPMENT — Panama.—Bids will be received at the office of the general purchasing officer of the Panama Canal Commission, Washington, D. C., until June 24 for furnishing electrical material, including fixtures, fittings, arc lamps, carbons, fuses, cable, wire conduit tape, etc., as per circular No. 599.

*LOCK GATES.—Panama.—Bids were received as follows on June 15 by the General Purchasing Officer of the Isthmian Canal Commission, Washington, D. C., for furnishing and erecting 46 mitering lock gates of two leaves each and of certain fixed parts for same. Bids were asked under two groups: (A) Gatun locks, (B) Pedro Miguel and Miraflores locks, the latter price including spare parts: The Maryland Steel Co., Sparrows Point, Md., (A) $3,620,737; (B) $4,788,632; erection completed Sept 1, 1913. The McCLINTIC-MARSHALL CONSTRUCTION CO., Pittsburg, (awarded contract), (A) $2,298,877; (B) $3,075,598; erection completed March 1, 1913. The Conley Manufacturing Co., Pittsburg, $4,322,152; (B) $5,861,105; erection pleted Jan. 1, 1914. The United S Steel Products Exports Co., 50 Church New York, (A) $2,690,308; (B) $3,578 Nov. 1, 1913. Alternative proposition $2,616,690; (B) $3,486,371; Nov. 1, 1913.

LUMBER.—Panama.—Bids were rec as follows on June 17, by the General chasing Officer of the Isthmian Canal mission, Washington, for furnishing about 1,500,000 ft. B. M., of long leaf low pine or Douglas fir lumber and (b) 050 untreated piles, 45 to 70 ft. long: Am ican Tie & Timber Co., New York, (b) 875; A. S. Bacon & Sons, Savannah, (a) $40,810, (b) $23,960; G. S. Baxte Co., 15 William St., New York, (b) 777.82; Bay Shore Lumber Co., Mobile, (a) $33,803, (b) $21,152, $20,965; J. H. ton & Co., Inc., 45 Broadway, New Y (b) $22,275; Chicago Lumber & Coal St. Louis, (a) $33,697; Dixon Lumber Savannah, Ga., (a) $40,710; G. Elias & B Buffalo, (a) $37,612, (b) $24,567; William D. Gill & Sons, Baltimore, (b) $30,420; J. Hurst, for J. J. Newman & Co., Louis, (a) $33,440; George R. Johnson, timore, (b) $23,650; J. H. Joice, Chica (a) $41,118, (b) $26,956; S. E. Naylor Co., Gulfport, Miss., (b) $22,179; Char Nelson Co., San Francisco, (a) $36,579, $26,869; Robinson Lumber, Veneer & Box Co., New Orleans, (b) $21,714; Southern Sawmill Co., Ltd., New Orleans, $23,06; Wood Vizard Lumber Co., Hattiesburg, Mi (a) part, $16,082; Georgia Pine Co., Baltimore, (a) $41,761, (b) 16.5 cts. per ft.; D. L. Gillespie & Co., 541 Wood St., Pittsburg, (a) $35,456, (b) $20,875; W. R. Grace & Co., San Francisco (a) $34,573; Hunter Benn & Co., Mobile, Ala., (b) $24,107; Salmen Brick & Lumber Co., Ltd., New Orleans, (b) $25,083.

CONTRACT PRICES.

(**Denotes that this work is advertised in Engineering News.*)

*CONCRETE DAM.—Fort Meade, S. Dak.—One bid was received by the Constructing Q. M., U. S. A., June 1, for constructing concrete dam and clearing reservoir site in connection with Fort Meade water-system. This was from Bartlett & Kling, Cedar Rapids, Iowa, the items being as follows: 3,732 cu. yds. earth excavation, 36 cts.; 1,449 cu. yds. rock excavation, $1.80; 84 lin. ft. 16-in. c.-i. pipe without valves, $5.84; 26 lin. ft. 12-in. c.-i. pipe without valves, $4.67; 50 lin. ft. vitrified drain pipe, 4-in., 50 cts.; 6,000 cu. yds. concrete, $7.35; 175 sq. yds. riprap, $1.40. Valves and fittings, lump sum, $875.

SEWERS.—Havelock, Neb.—Bids were received June 7 by C. A. Currie, City Clk., for constructing a system of sewers. Grant & Letton, Lincoln, are Engrs. The bidders were (A) H. C. GARDNER, Lincoln, Neb. (awarded contract); (B) Inter-Mountain Building & Construction Co.; (C) Elkhorn Construction Co.; (D) E. D. Reed. The itemized bids were as follows:

	(A)	(B)	(C)	(D)
2,938 lin. ft. 8-in. vitrified pipe sewer	$0.55	$0.50	$0.60	$0.60
5,378 lin. ft. 10-in. vitrified pipe sewer	0.55	0.52	0.65	0.70
2,880 lin. ft. 12-in. vitrified pipe sewer	0.65	0.68	0.70	0.80
5,940 lin. ft. 15-in. vitrified pipe sewer	0.93	1.20	0.80	0.90
96 lin. ft. 8-in. c.-i. pipe sewer	1.45	1.80	2.00	2.50
48 lin. ft. 10-in. c.-i. pipe sewer	1.75	2.40	3.00	2.75
156 lin. ft. 12-in. c.-i. pipe sewer	2.10	3.00	3.50	3.00
41 manholes, average depth, 8.8 ft.	30.00	4.80	40.00	45.00
10 cu. yds. reinforced concrete in outlet	22.50	14.40	20.00	12.50
Total	$13,849	$15,955	$14,749	$15,988

STORAGE RESERVOIR.—Waterbury, Conn.—Bids were received by the Board of Public Works, R. A. Cairns, Engr., June 7, for the construction of the Morris reservoir. The bidders were: (A) John F. Cogan Co., Brewster, N. Y.; (B) S. Pearson & Son, Inc., 507 5th Ave., New York, N. Y.; (C) MacArthur Bros. Co., 11 Pine St., New York, N. Y.; (D) The O'Brien Construction Co., Van Ness, N. Y.; (E) Conners Bros. Co., Lowell, Mass.; (F) Richard E. Heningham, 1 Madison Ave., New York, N. Y.; (G) Patrick McGovern, 6 Beacon St., Boston, Mass.; (H) Ryan-Unmack Co., 134 Olive St., New Haven, Conn.

	A	B	C	D	E	F	G	H
5,000 cu. yds. stripping under embankment	$1.25	$0.44	$0.50	$0.30	$1.00	$0.34	$0.60	$0.50
1,000 cu. yds. excavation of trenches	1.50	1.45	.60	.60	.80	.25	1.00	1.75
400 cu. yds. rock excavation	5.00	3.62	8.00	1.00	2.50	2.50	8.00	2.50
25,600 cu. yds. concrete masonry, 1:3:6	8.00	7.85	7.75	7.00	5.75	7.44	6.75	6.00
5,000 cu. yds. concrete masonry, 1:3:5	9.00	9.00	8.75	7.50	6.00	7.48	7.00	6.00
2,960 cu. yds. concrete blocks	12.00	16.44	15.00	10.00	16.00	13.50	12.00	10.00
525,000 cu. yds. rolled embankment	1.00	.70	.63	.65	.63	.52	.56	.50
5,900 cu. yds. crushed stone	2.00	2.17	2.80	1.50	2.00	1.15	1.00	1.05
8,900 cu. yds. paving	5.00	7.73	6.75	4.00	6.00	6.50	2.50	3.25
6,300 cu. yds. loaming on dam	1.00	1.16	1.30	.75	2.00	.60	1.00	.25
5,000 cu. yds. loaming adjacent areas	1.00	1.16	1.30	.75	1.00	.60	1.00	.30
650 sq. rods seeding	.50	.07	.25	.15	.20	1.65	2.00	.10
18,840 sq. yds. sodding	.40	.19	.25	.50	.10	1.00	.40	.15
700 lin. ft. 8-in. tile drain	.50	.43	.40	1.00	.75	1.00	.40	1.00
8 catch basins	50.00	21.75	10.00	15.00	25.00	20.00	15.00	50.00
Drain gate houses complete, exclusive of foundation	5,000.00	4,350.00	2,500.00	3,500.00	2,100.00	3,500.00	3,000.00	3,600.00
Service gate house complete	5,000.00	5,030.00	5,500.00	3,500.00	1,900.00	3,500.00	3,000.00	3,900.00
Granolithic flooring	1.00	.72	1.80	2.25	2.50	1.00	.50	1.00
Totals	$900,706	$773,464	$723,957	$659,075	$647,276	$641,480	$594,531	$528,436

Readers' Wants

If you are in the market for material, equipment or supplies, and fail to find it in our advertising pages, send us full particulars, and we will gladly put you in touch with the right parties.

METAL FLAG POLE—Scottsbluff, Neb.—e are in receipt of advices from Frank ff, stating that he is in the market for a ft. metal flag pole.

LEVEL AND WEIR RECORDING APPA-ATUS—Monterrey, Mex.—V. Saund, Res. gr., Monterrey Water Works and Sewer writes for names and addresses of firms nufacturing level and weir recording ap-ratus.

NCINERATOR EQUIPMENT—Vancouver, C.—The Public Works Engineering Co., ck Bldg., Portland, Ore., writes that it is the market for about 75M. fire brick; of tiling; 2 sets wagon scales; C O 2 corders; temperature testing apparatus; ne 150-ft. chimney; two water tube boilers, 0 HP. each; 4 blower fans; 4 engines; teel dumping cars.

EXAMINATIONS.

LABORATORY AID—Washington, D. C.—The U. S. Civil Service Commission announces an examination on July 27, to secure eligibles from which to make certification to the position of Laboratory Aid in agricultural technology, at $600 a year in the Bureau of Plant Industry, Department of Agriculture, and vacancies as they may occur, requiring similar qualifications, in that Department. Men only will be admitted to this examination. Applicants must have reached their seventeenth birthday, but not their twenty-fifth birthday, on the date of the examination. Application form 304.

ASSISTANT ENGINEER — Cambridge, Mass.—The competitive examination of applicants to fill one vacancy in the position of Assistant Engineer at the pumping station, Water Department, Cambridge, at a salary of $1,300 per year and house, and similar vacancies as they may occur, which was advertised to be held June 24, has been postponed until such time as a suitable number of applications shall have been received by the Civil Service Commission, Boston, Mass. Each applicant must have a state license as first class engineer, which he will be required to exhibit at the examination. Only male citizens of the United States who have been residents of Massachusetts for the past year, and of Cambridge for the six months last past, have a right to apply. Applications should be filed at once.

ASSISTANT CHEMIST—Washington, D. C.—The U. S. Civil Service Commission announces an examination on July 27-28, to secure eligibles from which to make certification to fill vacancies in the position of Assistant Chemist, at salaries from $1,200 to $1,600 a year, as they may occur in the Bureau of Chemistry, Department of Agriculture. The usual entrance salary is $1,200, and only in exceptional cases of unusual qualifications, including considerable valuable experience, will a higher salary than $1,200 be paid. It is stated by the Department that men experienced in tannery chemistry and paper-making chemistry and in the chemistry of india rubber will probably be needed in the near future. Applicants having experience along these lines are therefore requested to set forth fully such experience in their applications. Age limit, 20 years. Application form 1312. Applications must be filed prior to closing hour on July 16.

INDUSTRIAL NOTES.

AN ADDITION to the plant of the Augustine Rotary Engine Co., Buffalo, N. Y., will shortly be built.

THE VULCAN STEAM SHOVEL CO., Evansville, Ind., will in the near future make a considerable addition to its present Toledo, Ohio, works.

POCKET COMPASSES of American make have recently been ordered by the Engineering Corps of the United States Army from Izard-Warren Co., Inc., 136 North Twelfth St., Philadelphia.

THE INTERSTATE BRIDGE COMMISSION, 151 Broadway, N. Y., rejected the bids received by them, four in number, for test borings to determine the foundations for the proposed site of the Hudson River Bridge at both 109th and 179th Sts., New York City.

J. C. JAMESON is in charge of the newly established offices of the Indianapolis Switch & Frog Co., McCormick Bldg., Chicago. Mr. Jameson will have the company's entire line including manganese frogs, industrial track and sidings, as well as regular track construction for steam and electric lines.

THE J. I. CASE THRESHING MACHINE CO., builders of road rollers and other road-making machinery, is making a considerable extension to its plant at Lakeside, Wis. This addition, which will be 100 × 800 ft., will afford room for the making of 200 tons of castings daily.

THE LACKAWANNA STEEL CO. will move its offices from New York City to its works at Lackawanna, near Buffalo, as soon as necessary additions can be made to the present office building. A sales office will be maintained, however, at the present location, No. 2 Rector St., New York City.

THE AMERICAN LOCOMOTIVE CO. has in the last week secured orders for four ten-wheel passenger and two six-wheel switch engines from the Northern Pacific, and three light locomotives for industrial works. The largest contract booked in some time was by the Baldwin Locomotive Works, which included 85 passenger locomotives for the Harriman lines. The average cost was about $13,250.

PACIFIC COAST WORK continues to come out in volume. Nelson S. Pratt, Mayor of Spokane, Wash., announces that $5,000,000 will be expended on bridge and street work this year, and by the end of next year it will amount to at least $7,000,000. The city has been spending money liberally in improvements for several years, and now has under construction a $400,000 concrete bridge over the Spokane River below the Falls.

A DEPARTURE, to some extent, in obtaining power for copper mining operations has recently been made by the United Verde Copper Co., Jerome, Ariz. The company has purchased oil engines of the Diesel type, made by Adolphus Busch, St. Louis, Mo. In times past it has been extremely difficult for the copper producers in this district to obtain the fuel required, and it is believed that the installation of oil engines will solve the problem.

THE HARRIS GRANITE CO., Salisbury, N. C., has absorbed the business and good will of the Esson Granite Co., American Stone Co., Dun Mountain Granite Co., Stacy Crusher Plant and operates under the Balfour Pink Granite Co. Consolidation has been for the purpose of securing more economical works. The general offices of the company will remain as heretofore at Salisbury, N. C., the business being under the management of Mr. Geo. R. Collins.

CONTRACTS FOR THE CONSTRUCTION of a new north and south line in Chili have been let to Messrs. Griffiths & Co. of London. The contract price for this work is upwards of $20,000,000 and will include a line some 400 miles in length. The Southern terminus will be at Cabildo near La Serena, and run through a mountainous country to Toledo near Capiapo. This will connect seven lateral lines and will form, what in the future will be, a line extending from the southern part of Chili to Peru, and perhaps be a portion of the much talked of Pan American Railway. The construction will be unusually heavy, necessitating much bridge work and many tunnels.

THE PRICE OF COMMODITIES, according to a recent bulletin of the Department of Commerce and Labor, is still advancing. The index number of farm products is at the highest level ever reached, being 181 on March, 1910, compared with 147.5 in March, 1909. Building materials and lumber have likewise increased in cost, but at a less ratio, the index figure for March, 1910, being 151.3 compared with 136.1 a year ago. The relative wholesale prices of raw commodities during the year 1909 averaged 186.8, which is the highest figure ever reached, being an advance of 11.3 points over the preceding year. The lowest point was reached in 1896 when the average was 84. Manufactured commodities, however, have not advanced as much, the average for 1909 being 1.7 points above 1908, and 4.7 points below the high figure reached in 1907. The lowest figure recorded was 90.1 in 1897. Since these figures were compiled by the department there have been numerous reductions in many lines.

REFORESTING OPERATIONS are now being conducted by the Penn Iron Mining Co., of Michigan, a subsidiary of the Cambria Steel Co. This company has planter bria Steel Co. This company has planted Mich., 40,000 white pine seedlings obtained from the Michigan Public Domain Commission. This is to provide for future mine timbers.

LIST OF CONTRACTS PENDING.

Light, Heat and Power Plants.

		Noted in issue of
6-24	Ventilating, Carrington, N. Dak.	6- 9
6-24	Lighting fixtures, Washington, D. C	6-16
6-24	Lamps, Chicago, Ill	6-23
6-24	Elec. equipment, Panama	6-23
6-25	Rewiring, etc., Fort Slocum, N.Y.	6-23
6-27	Equipment, Apache, Okla	6-23
6-27	Power-house, etc., Allentown, Pa.	6-23
6-27	Light and heat system, Delaware, Ohio	6- 9
6-27	Elec. light plant, Stafford, Kan.	6-16
6-27	Street lighting, Luray, Va.	6-16
6-27*	Conduit, etc., St. Louis, Mo.	6- 2
6-27	Heating and ventilating, New York	6-16
6-29*	Power plant, Cleveland, Ohio	6- 2
6-29	Light fixtures, Long Island City, N. Y.	6-23
6-29*	Conduits, Westfield, Mass	6-23
6-30	Power plant, Cisco, Utah	5-19
7- 5	Electrical supplies, New York	6-23
7- 5	Elec. equipment, New York	6-23
7- 6	Franchise, Bodie, Cal	6- 9
7- 6*	Steam dist. system, West Point, N. Y	6-23
7-11*	Heating plants, etc., Atlanta, Ga.	6-16

Bridges.

6-24	Bridge, Taylor's Falls, Minn.	6- 9
6-24	Bridge work, Appleton, Wis.	6-23
6-24	Concrete piers, Pickens, S. C.	6-23
6-25	Bridge repair, Hamilton, Ohio	6-23
6-25	Bridges, Cleveland, Ohio	6- 9
6-25	Bridge, San Antonio, Tex	6- 2
6-27	Bridge, Niles, Ohio	6- 9
6-27	Bridge, Hubbard, Ohio	6- 9
6-27	Piers, Pittsburg, Pa.	6- 9
6-27	Bridge, San Jose, Cal	6-23
6-27	Bridge, Schuyler, Neb	6-23
6-27	Bridge work, etc., St. Clairsville, Ohio	6-23
6-27	Bridge, Washington, D. C.	6-23
6-28	Culverts, St. Joseph, Mo.	6-23
6-28*	Bridge, Winnipeg, Man.	5- 5
6-30	Bridges, Evansville, Ind.	6-23
7- 2	Bridge, Washington C. H., Ohio	6-16
7- 5	Bridges, Arcadia, Tex	6-16
7- 5	Bridge, Stevenson, Wash.	5-12
7- 5	Bridges, Richmond, Ind	6-23
7- 5	Bridge, Lawrenceburg, Ind.	6-23
7- 5	Trestle, West Point, Miss.	6-23
7- 5	School, New York	6-23
7- 6	Bridge, San Luis Obispo, Cal.	6-23
7- 6	Bridges, Metz, Cal.	5-26
7- 6	Bridge, Templeton, Cal.	6- 9
7- 6	Bridges, Council Grove, Kan.	6- 9
7- 7	Bridge, Oil City, Pa.	6-16
7- 9*	Bridge, Huron, Ohio	6- 9
7-13	Bridge work, Cleveland, Ohio	6-23
7-14	Substructure, etc., Columbus, Ohio	6-23
7-16	Bridge, Jeffersonville, Ind.	6-16
7-18*	Bridge, Columbus, Ga.	6-16
7-25	Bridges, Leesburg, Va.	5-26
7-28	Bridge work, Alexandria, La.	6-16

Buildings.

6-24*	Post-office, Aiken, S. C.	5-24
6-25	Foundation, Boston, Mass	6- 2
6-25	Houses, Stellarton, N. S.	6-16
6-27	School, Delaware, Ohio	6-16
6-27	Post-office, Minneapolis, Minn.	5-26
8-27	School, New York	6- 9
6-27	Dormitory, St. Paul, Minn.	6-23
6-27	School, St. Paul, Minn.	6-23
6-27	Fire station, Hartford, Conn.	6-23
6-27	Station, Greensburg, Pa	6-23
6-28*	Post-office, Plattsmouth, Neb.	5-26
6-28	School, Princeton, Ind.	6-16
6-29	Post-office, Chambersburg, Pa.	6- 2
6-30*	Post-office, Greenville, Ill.	5-26
6-30	Plans, Saskatoon, Sask.	6-16
7- 1	Post-office, Jeffersonville, Ind.	6- 2
7- 1	Pavilion, New York	6-23
7- 5	Foundation, Evansville, Ind	6-23
7- 5*	Post-office, Troy, Ala.	6- 9
7- 6	School, Columbus, Ohio	6-23
7- 7*	Shacks, Glen Gardner, N. J.	6-23
7- 7	Post-office, Beloit, Wis.	6- 9
7-11*	Post-office, Columbus, Neb.	6- 2
7-12	Quarters, San Francisco, Cal.	6- 9
7-18*	Post-office, Demopolis, Ala.	6- 9
7-26	Quarters, Louisville, Ky.	6-16
7-27*	Post-office, Lewiston, Idaho	6-16
8- 1*	Post-office, Santa Cruz, Cal.	6-23
8-25	Buildings, etc., Hawaii	6- 9
9-10	Plans, Albany, N. Y.	6- 9
11- 1	Plans, Toronto, Ont.	6- 9

Water-Works.

		Noted in issue of
6-27*	Pipe, New Westminster, B. C.	6-16
6-27	W.-wks. materials, etc., Apache, Okla	6-16
6-27	Water meters, Washington, D. C.	6-23
6-28	Well, Ellendale, Minn	6-23
6-28*	Pumping station, Atlantic City, N. J.	6- 9
6-29	W.-wks. supplies, New York	6-16
6-29	Pumping sta., Baltimore, Md.	6-23
6-30	Water-works, Cherokee, Okla.	6-16
6-30	Pipe, Fort Leavenworth, Kan.	6- 9
7- 1	Steel pipe, Los Angeles, Cal.	5-26
7- 1	Water lines, Olean, N. Y.	6-23
7- 2	Reservoir, Denver, Colo	6-23
7- 2	Well, Louisa, Va	6-23
7- 5	Water main, Fort Mason, Cal.	6-23
7- 5	C.-I. pipe, Muskogee, Okla.	6-23
7- 5	Reservoir, etc., Albion, Pa.	6-23
7- 6	Meters, New York	6-23
7- 6	Water mains, Fort Smith, Ark.	6-23
7- 6	Water mains, New York	6-16
7- 8	Canal enlargement, Boise, Idaho.	5-19
7- 8*	Standpipe, Waynesboro, Va.	6-16
7-11	Well, Corydon, Iowa	6-16
7-15*	Pumping plant, Carrollton, Ill.	6-23
7-18*	Dam, Boulder, Colo.	6-23

Sewers.

6-23	Sewer, Parkersburg, W. Va.	6-23
6-24	Sewers, Madison, Wis.	6-23
6-24	Sewers, New Haven, Conn.	6-23
6-24	Sewers, Roanoke, Va.	6-16
6-24	Sewer, South Bend, Ind.	6- 9
6-24	Sewers, Lebanon, Ohio	6- 2
6-25	Sewers, Youngstown, Ohio	6-23
6-25	Drain, Farmington, Conn.	6-23
6-27	Sewers, Jefferson, Ohio	6-23
6-27	Sewer bonds, Washington, N. J.	6-23
6-27	Sewer materials, etc., Apache, Okla	6-16
6-27	Sewers, Vermilion, S. Dak.	6-16
6-27	Sewers, Knoxville, Iowa	6-16
6-27	Sewers, etc., New York	6-16
6-27*	Sewer, Hartford, Conn.	6-16
6-28*	Sewers, Amarillo, Tex	6-16
6-29	Sewer, La Follette, Tenn.	6-16
6-29	Sewers, Brooklyn, N. Y.	6-23
7- 1	Sewers, North Braddock, Pa.	6-23
7- 1	Sewer, Portland, Me.	6-16
7- 1	Sewage plant, West View, Pa.	6- 9
7- 5*	Sewer, Plainfield, N. J.	6-16
7- 5	Sewer system, Hugo, Okla.	6-16
7- 6	Sewers, Struthers, Ohio	6-16
7- 6	Sewer, etc., Pella, Iowa	6-16
7- 6*	Sewer system, Iowa Falls, Iowa	6-23
7- 6*	Sewer, Attleboro, Mass.	6-23
7- 6	Sewers, Brooklyn, N. Y.	6-23
7- 6	Sewers, New York	6-23
7- 7	Vitrified pipe, Munising, Mich.	6-16
7- 7	Sewers, Fort Warren, Mass.	6-16
7- 8*	Disposal plant, etc., Norristown, Pa	6-23
7- 9	Drain, Boston, Mass.	6-16
7-11*	Sewage tank, Charleston, S. C.	6-16
7-11*	Sewer system, Sandpoint, Idaho	6-23
7-12	Sewer fittings, etc., Atlanta, Ga.	6-23
7-12	Sewers, Sabetha, Kan.	6-16
7-25	Drain, Savannah, Ga	6-23

Streets and Roads.

		Noted in issue of
6-24	Sidewalks, Valparaiso, Ind.	6- 2
6-24	Roads, Pittsburg, Pa.	6- 9
6-24	Paving, etc., Mt. Pleasant, Pa.	6-16
6-24	Paving, Wapakoneta, Ohio	6-16
6-24	Paving, Albert Lea, Minn.	6-23
6-24	Roads, Hartford, Conn.	6-23
6-25	Curb, Burlington, Vt.	6-23
6-27	Paving, Sheridan, Wyo.	6-23
6-27	Paving, Lindsay, Ont	6-23
6-27	Paving, Norfolk, Neb	6-23
6-27	Road, Glyndon, Minn.	6-23
6-27	Roads, etc., Ft. Monroe, Va.	6-23
6-27	Paving, Albia, Iowa	6-16
6-28	Paving, etc., Port Townsend, Wash	6-16
6-28	Paving, Pottsville, Pa.	6-16
6-28	Paving, Tacoma, Wash	6-23
6-28	Boulevard, Houston, Tex.	6-23
6-29	Paving, Baltimore, Md	6-23
6-29	Macadam, Prosser, Wash	6-23
6-29	Sidewalks, Laporte, Ind	6-23
6-29	Road, Kennebunk, Me.	6-23
6-29	Road, North Yakima, Wash.	6-23
6-29	Roads, Columbus, Ohio	6- 9
6-30	Road, Greenfield, Ind.	6- 9
6-30	Roads, Anderson, Ind.	6- 9
6-30	Sidewalks, Brazil, Ind.	6- 2
6-30	Roads, etc., Jefferson Barracks, Mo	6-23
7- 1	Roads, Concord, N. H.	6-23
7- 5	Road, Indiana	6-23
7- 5	Road, Mount Holly, N. J.	6-23
7- 5	Paving, Schuylkill Haven, Pa.	6-23
7- 5	Road, Rushville, Ind.	6-16
7- 5	Roads, Princeton, Ind.	6-16
7- 5	Roads, Greencastle, Ind.	6-16
7- 5	Roads, Danville, Ind.	6-16
7- 5	Roads, Tipton, Ind.	6-16
7- 5*	Road, Burlington, N. J.	6-16
7- 6	Road, Muncie, Ind.	6-16
7- 6	Road, Logansport, Ind.	6-16
7- 6	Paving, etc., Canton, Ohio	6-16
7- 6	Paving, Canton, Ohio	6-23
7- 6	Road, Indiana	6-28
7- 6	Paving, etc., New York	6-23
7- 7	Road, Indiana	6-23
7- 7*	Macadam, Glen Gardner, N. J.	6-23
7- 8	Road, Indiana	6-23
7- 8	Roads, Concord, N. H.	6-23
7- 8	Sidewalks, etc., Hoosick Falls, N. Y.	6-23
7- 8	Macadam, Flemington, N. J.	6-23
7- 9*	Paving, Washington, D. C.	6-23
7- 9	Paving, Charleston, S. C.	6-16
7-11*	Paving, Waukesha, Wis.	6-16
7-11	Road, Indiana	6-23
7-11*	Paving, Newark, N. J.	6-23
7-12	Paving, Lake City, Fla.	6-23
7-12	Roads, etc., Ft. Slocum, N. Y.	6-23
7-14	Road, Baltimore, Md.	6-23

Miscellaneous.

6-24*	Towboat, New Orleans, La.	6- 2
6-24	Concrete boxes, St. Louis, Mo.	6-16
6-24	Willows, New Orleans, La.	6-23
6-24	Ditch, Red Lake Falls, Minn.	6-23
6-25	Drainage, Clinton, Ill.	6-23
6-25	Cement, Ft. Leavenworth, Kan.	6-23
6-25	Mineral oil, Cincinnati, Ohio	6- 9
6-27	Earthwork, New Orleans, La	6- 9
6-27*	Dredging, New York	6- 2
6-27*	Steel lock gates, etc., Buffalo, N. Y.	5-26
6-27*	Ladder dredge, Panama	5- 5
6-27*	Coal, New York, N. Y.	6-16
6-27	Culvert, Kansas City, Kan.	6-23
6-27	Dump, fill-in, New York, N. Y.	6-23
6-28	Supplies, Washington, D. C.	6-23
6-28	Ditch, etc., Chillicothe, Mo.	6-16
6-28	Cranes, steel plates, Panama	6-23
6-29	Wharf, Tadousac, Que.	6-16
6-29	Bulkhead, etc., New York, N. Y.	5-20
6-30	Seawall, San Francisco, Cal.	6- 2
6-30	Rebuilding steamer, New York	6-23
6-30	Dumping boards, New York	6-23
7- 1	Revetment, Memphis, Tenn.	6-16
7- 2	Ditch, Hampton, Ill.	6-16
7- 2	Crane, Vallejo, Cal.	6-16
7- 5	Wharf, Levis, Que.	6-16
7- 5*	Channel impvts., Cleveland, Miss.	6-16
7- 5*	Drainage system, Greenwood, Miss.	6-23
7- 5*	Wharf, Richmond, Va.	6-23
7- 8	Steel bars, Atlanta, Ga.	6-23
7- 9	Drain, Boston, Mass.	6-23
7-12	Light-house supplies, Tompkinsville, N. Y.	6-23
7-14*	Metal shelving, San Francisco	6- 9
7-15	Metal shelving, Atlanta, Ga.	6-16
7-15	Drainage, Waco, Neb.	6-16
7-19*	Barge canal, Albany, N. Y.	6-23
7-19	Dredging, Trenton, N. J.	6-23
7-20	Dredge, Vancouver, B. C.	6-16
7-22*	Removing rock, gravel, etc., New York, N. Y.	6-23
7-25	Trinitrotoluol, Ft. Totten, N. Y.	6- 9
7-25*	Dams and canal, Porto Rico	5-12

Examinations.

No date.	Asst. Engr., Cambridge, Mass.	6-23
6-25	Rodman, Albany, N. Y.	6- 9
6-25	Supt. of Streets, Albany, N. Y.	6- 9
6-25	Technical Asst., Albany, N. Y.	6- 9
6-25	Engrg. Draftsman, Albany, N. Y.	6- 9
6-25	Foreman, Albany, N. Y.	6- 9
6-25	Highway Inspector, Albany, N. Y.	6- 9
6-25	Chainman, Albany, N. Y.	6- 9
6-25	Civil Engr., Albany, N. Y.	6- 9
6-25	Chemist, Albany, N. Y.	6- 9
7- 8	Electrician, New York, N. Y.	6- 2
7-13	Junior Engineer, Wash., D. C.	6- 2
7-13	Asst. Engr., Wash., D. C.	6- 2
7-13	Examiner, Klamath Falls, Ore.	5-12
7-27	Asst. Chemist, Wash., D. C.	6-23
7-27	Laboratory Aid, Wash., D. C.	6-23

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file (for reference only unless otherwise noted) at the office of The Engineering News Publishing Co., 220 Broadway, New York.

6-25	Foundation, Boston, Mass.	(S.)	6- 2
6-27*	Steel lock gates, etc., Buffalo, N. Y.	(S.)	5-26
6-27	Piers, Pittsburg, Pa.	(P. & S.)	6- 9
6-27	Light and heat system, Delaware Ohio	(P. & S.)	6- 9
6-28*	Bridge, Winnipeg, Man.	(P. & S.)	5- 5
7- 2	Crane, Vallejo, Cal.	(S.)	6-16
7- 1	Sewers, Jefferson, Ohio	(S.)	6- 9
7- 8*	Standpipe, Waynesboro, Va.	(S.)	6-16
7- 8	Canal enlargement, Boise, Iowa,	P. & S.)	5-19
7- 9	Drain, Boston, Mass.	(S.)	6-16
7- 9	Paving, Charleston, S. C.	(S.)	6-16
7-12	Sewer fittings, etc., Atlanta, Ga.	(S.)	6-23
7-25*	Dams, canal, Porto Rico.	(F. & S.)	5-12

THE ATLAS PORTLAND CEMENT CO., 30 Broad St., New York City, deny the report that it contemplates the erection of a cement plant on the Big Salmon River, Idaho.

RECENT ORDERS taken by Warren Bros., Boston, Mass., through their subsidiary companies, include 83,000 sq. yds. of bitulithic pavement in Portland, Ore.; 24,000 sq. yds. in Whitesboro, N. Y.; 26,000 sq. yds. in Virginia, Minn., as well as numerous small orders scattered throughout the United States.

WEST HUDSON CONSTRUCTION CO., New York City, has recently been incorporated to do a general contracting business, including railroads, bridges and waterwords. The capital stock is $500,000 and the incorporators are N. A. Stancliffe, J. J. Donovan, New York City, and F. P. Whitaker, Cliffside, N. J.

BY-PRODUCT COKE OVENS to the number of 280 of the Kopper's design are now being constructed by the Tennessee Coal, Iron and Rail Road Co., at Wylan, near Ensley, Ala. The U. S. Steel Corporation has at Joliet, Ill., 280 ovens of this type and 560 more are under construction at Gary, Ind. With those under construction in Alabama it will give the corporation 1120 Kopper's ovens. It is estimated that the daily output at the Wylan plant, with Alabama coal, will be 3,150 tons of coke, 22,000,000 cu. ft. of fuel gas, 35,000 gals. of tar and 44 tons of sulphate of ammonia.

CHINESE RAILWAY OPERATION is not profitable according to the "North China Daily News" which says:

"The Pekin-Hankow line will show gross earnings of $8,250,000 gold and the Pekin-Mukden line gross of about $7,200,000 gold. After deducting expenses and interest the net profit of the two lines will amount to $6,750,000, which after charging up the deficiency of the other eight lines leaves a balance of net profits amounting to $4,875,000. Among the eight lines showing deficits were the Shanghai-Nanking with $750,000, the Changting-Taiyuan $450,000, the Tao Ching $75,000; the Pienliang-Layang $450,000, the Peking-Kilgan $111,500 and the West Mausolia $11,500.

"The $4,875,000 representing the net profits of these ten lines will have to be depended upon for the construction of additional railways and a report of these figures has been made to the president of the Board of Posts and Communications who will be asked to appoint deputies to proceed to the lines to scrutinize the estimates presented."

HIGH RECORD IMPORTS OF MANUFACTURERS' MATERIALS IN 1910.—Importation of manufacturers' materials in the year which ends with this month will exceed that of any preceding year in the history of our commerce. Figures of the Bureau of Statistics covering the ten months imports show in nearly every important article of manufacturers' use large increases in the quantities brought into the country. In hides and skins, in india rubber, in wool, in silk, in cotton, in fibers, in lumber, in iron ore, in copper ore, in wood pulp and pulp wood, in tobacco, and in chemicals used in manufacturing, the quantity imported in the ten months of the current fiscal year for which figures are at hand is so far in excess of that for the corresponding months of earlier years that it is safe to assert that the quantity as well as the value of manufacturers' materials imported in the current fiscal year will exceed by far that of any earlier year. Comparing 1910 with 1907, it is found that practically all of the important articles for use in manufacturing show larger quantities in the ten months of the current fiscal year for which figures are now available than in the corresponding months of the fiscal year 1907.

Hides and skins imported in the ten months ending with April, 1910, show a total of 520,000,000 lbs., against 297,000,000 in 1907, the former high record year in the importation of manufacturers' materials, and an aggregate value of $96,500,000, against $66,750,000 in the corresponding months of 1907. India rubber imports for the ten months show a total of 90,000,000 lbs., against 60,000,000 in the corresponding period of 1907; tin, 86,500,000 lbs., against 82,500,000 in the corresponding period of 1907; lumber, 862,000,000 ft. against 753,500,000 in the corresponding months of 1907.

All the above statements relate to quantities the purpose of discussing quantities only in this connection being to indicate more distinctly the actual gain in importation, since fluctuations in prices during the period under consideration would render the figures of values less instructive as to the actual gain of 1910 over 1907. In all cases mentioned the quantities imported in the ten elapsed months of the fiscal year 1910 exceed materially those of the corresponding period in 1907, the increases ranging from 10% upward to more than 100%.

While estimates of the actual increase in the importation of the principal articles can be more accurately had by comparing quantities in 1910 with the quantities in 1907, the general estimate of increase in all imports can only be had by utilization of the figures relating to values, since the number of articles used in manufacturing is so great that a comparison of the quantities one by one with those for earlier years is not practicable; and, if so made, would not supply the data for a measurement of the general increase in manufacturers' materials as a whole. Measuring the entire group "Manufacturers' materials" in dollars, the Bureau of Statistics' figures show for the ten months ending with April, 1910, $728,000,000 worth of manufacturers' materials imported, against $629,000,000 worth imported in the corresponding months of 1907. The increase in 1910 over 1907 being thus about 16%, and indicating that the manufacturers' materials imported in the fiscal year ending with this month will exceed both in quantity and value those of any preceding year, and aggregate in value nearly $900,000,000.

Exports, however, are not at record-breaking figures.

TRADE PUBLICATIONS.

OILING SYSTEM.—Peterson Engineering Co., 50 Church St., New York City. Bulletins 51 and 52. Paper; 6 × 9 ins.; pp. 4 each; illustrated.

The first of these bulletins describes a sight flow indicator for liquid, or gas, piping systems. This shows the flow at a glance, or with electrical connection, will indicate by lighting a lamp or ringing a bell.

The device is made in the shape of a brass valve body, with a pivot ring carrying the indicator, so that the indicator can be operated in horizontal, vertical or inclined position. It is intended to be used in boiler-feed, pump, gas-engine, air-compressor discharge lines and water and oil cooling systems generally.

The second bulletin describes an individual oiling system to be applied to engines, ice machines, air compressors, etc. The system is self-contained for each machine and consists of a small receiving tank so located that all the oil drips are discharged to it by gravity. The receiving tank partially filters the oil, after which it is taken out by a small pump, delivered to a separate filter and allowed to flow from there by gravity to the various feed connections.

For other Proposal Advertisements see pages 51, 52, 53, 54, 56, of Advertisements and Construction News page 278.

SEWER.

OFFICE OF THE COMMISSIONERS OF SEWERAGE OF LOUISVILLE, KY.
Incorporated.

Sealed proposals for the construction of a sewer known as the Oak St. Sewer, Section "B," Contract No. 71, of the Comprehensive System of Sewerage for the City of Louisville, Ky., will be received at the office of the Commissioners of Sewerage, 605 Equitable Building, Louisville, Ky., until 12 o'clock noon, July 8, 1910.

The work will consist of the construction of about 1,970 ft. of 42" and 54" concrete sewer, including about 830 cu. yds. of concrete and about 617 ft. of 27" Vitrified Pipe. Excavation 9 ft. to 23 ft. deep.

Plans and specifications may be seen at the office of the Commissioners and at the office of Harrison P. Eddy, Consulting Engineer, 14 Beacon St., Boston, Mass.

Sealed bids should be endorsed "Proposal for Oak St. Sewer, Section B," and addressed to the Commissioners of Sewerage, Equitable Building, Louisville, Ky. Each bid must be accompanied by a certified check for at least seven per cent. (7%) of the total amount of the bid, or a "Bidder's Bond" as described in the form of proposal.

P. L. ATHERTON,
Chairman.
CHAS. P. WEAVER, Secy. & Treas.
J. B. F. BREED, Chief Engineer.

UNDERGROUND ELECTRICAL CONDUITS.

Westfield, Mass.

Sealed proposals for building underground electrical conduits in Westfield, Mass., will be received by the Committee on Repaving Elm st. and Park sq., at the office of the Town Clerk, until 2 o'clock, P. M., of June 29th, 1910, and at that time will be publicly opened and read.

The work includes the building of about 9,000 ft. of conduit of various sizes from one to twelve ducts together with the necessary manholes and other appurtenances.

Each bid must be accompanied by a certified check for five hundred ($500) dollars.

Plans and blank forms of contract, specifications and proposal can be seen at the office of the Town Engineer.

The Committee reserves the right to reject any and all bids or to accept any bid should they deem it for the interest of the Town of Westfield so to do.

JAMES H. BRYAN,
Chairman.
LEWIS C. PARKER,
Secretary.
OREN E. PARKS,
Town Engineer.

SEWERAGE.

Attleborough, Massachusetts,
June 23, 1910.

Sealed proposals will be received at the office of the Committee on Sewerage, Attleborough, Massachusetts, until 3.00 P. M. of Wednesday, July 6, 1910, addressed to the Chairman of the Sewerage Committee for each of the following contracts for the construction of a trunk sewer and filtration areas.

CONTRACT A.

The construction of 16 acres of filtration areas.

Laying 23,000 lineal feet of 3, 6, 8, 10 and 12-inch underdrains.

Laying 10,800 lineal feet of 6, 8, 10, 15, 20 and 24-inch distribution.

Laying 250 cubic yards of concrete.

Building 36 brick manholes.

Excavating 75,000 cubic yards of earth.

CONTRACT B.

The construction of 11,150 lineal feet of 30-inch concrete sewer.

Laying 24 lineal feet of 30-inch cast iron pipe.

Laying 216 lineal feet of 20-inch cast iron pipe.

Building 45 brick manholes.

CONTRACT C.

The construction of 3,600 lineal feet of 30-inch concrete sewer.

Laying 2,460 lineal feet of 30-inch cast iron pipe.

Building 23 brick manholes.

CONTRACT D.

Furnishing 32,800 lineal feet of 3, 6, 8, 10, 12, 15, 20 and 24-inch Ohio vitrified pipe and specials.

CONTRACT E.

Furnishing 2484 lineal feet of light weight 30-inch cast iron pipe.

216 lineal feet of 20-inch light weight cast iron pipe.

936 lineal feet of 8 inch light weight cast iron pipe.

384 lineal feet of 6 inch light weight cast iron pipe.

258 pieces of special castings.

CONTRACT F.

Furnishing 85 manhole covers.

CONTRACT G.

Furnishing 198 light weight water gates 6, 8, and 16-inch.

19 light weight screw gates 15, 20 and 24-inch.

The above are the approximate quantities required.

Proposals for A, B, C and D must be accompanied by certified checks for $1,000, $1,500, $1,000 and $200 respectively.

The deposits of unsuccessful bidders will be returned as soon as the contracts are signed.

Plans will be on file and specifications and forms of proposals may be obtained at the office of the Committee on Sewerage; also at the office of the Engineer, South Framingham, Massachusetts.

The Engineer will personally conduct contractors over the proposed sewer line on Monday and Wednesday, June 27 and 29, and over the filtration field on Tuesday and Thursday, June 28 and 30, leaving the Park Square Railway waiting room Attleborough, Mass., at 9.00 o'clock A. M.

The Committee reserves the right to reject any and all bids that may be offered and to accept any bid that may be offered.

CHARLES S. HOLDEN, M. D.,
Chairman.
J. J. VAN VALKENBURGH,
Engineer.

DAM.

Boulder, Colorado, June 19, 1910.

Sealed proposals for the construction of a Rubble Concrete Masonry Dam at Albion Lake Reservoir, Boulder County, Colorado, will be received by the City Council of Boulder, Colorado, at the City Hall in said City until 7 o'clock P. M. July 18, 1910, when they will be opened and read. The dam is to be sixty feet high and the work includes about 13,000 cubic yards rubble concrete, together with necessary excavation, gate houses, valves, etc. Bidders should visit the site before bidding on the work.

Proposals shall be accompanied by a certified check on a Colorado Bank for Five Thousand Dollars ($5,000.00) made payable without reservation to A. A. Greenman. The successful contractor will be required to furnish an approved Surety Company Bond for Twenty-five Thousand Dollars ($25,000.00) within ten (10) days after notice that the contra has been awarded to him.

Plans, specifications and proposa blanks, may be obtained after June 2 from the Consulting Engineer, M. S Ketchum, 438 Century Bldg., Denver Colorado, upon the deposit of Twenty-five Dollars ($25.00) which will be returned for plans and specifications that are returned on or before July 20, 1910. Plans and specifications will be on file at the office of Fred R. Dungan, City Engineer Boulder, Colorado.

The City Council reserves the right to reject any and all bids.

A. A. GREENMAN,
Mayor.
FRED. R. DUNGAN,
City Engineer
M. S. KETCHUM, Consulting Engineer,
438 Century Bldg., Denver, Colo.

DREDGING.

Boston, Mass.

COMMONWEALTH OF MASSACHUSETTS.—Board of Harbor and Land Commissioners. State House, Boston, June 20, 1910. Sealed bids or proposals for dredging the south channel of Mystic River in Boston Harbor will be received by the Board of Harbor and Land Commissioners at Room 131, State House, Boston, Mass., until 2 o'clock p. m., FRIDAY, July 1, 1910, and then and there will be publicly opened and read. The work to be done is the dredging of about 115,000 cubic yards, scow measurement, of material to make the channel 20 feet deep at mean low water. All proposals must be made upon blank forms which, together with information in regard to the work, may be obtained at the office of the Board, where plans and specifications may be seen. Each bidder will be required to give to the Board satisfactory assurance of his competency, experience and responsibility. The right is reserved to reject any and all bids and to waive any defect or informality, at the discretion of the Board. GEORGE E. SMITH, SAMUEL M. MANSFIELD, HEMAN A. HARDING, Harbor and Land Commissioners. FRANK W. HODGDON, Chief Engineer.

Situations Open

WANTED—Experienced structural steel detailers and checkers; state experience, salary and time available. Address DES MOINES BRIDGE & IRON COMPANY, Pittsburgh, Pa. 25-1t

WANTED—Shop manager for fabricating shop, handling about 25,000 tons of bars per annum. Technical graduate preferred. High-grade position. Only experienced men need apply. Address "E. B. 25," Engineering News, New York. 25-3t

WANTED—Structural draftsman in railway bridge engineer's office in New York City. Salary $115 per month. In reply state experience, whether graduate or not, earliest date on which you can report and send sample of drafting. Address "F. B. 25," Engineering News, New York. 25-1t

FOR SALE

FOR SALE.

The Following Machinery at the Neafie & Levy Ship & Engine Building Plant

1—Vert. Duplex Air Compressor, compound, 18 × 36 × 36 steam, 20 × 33 × 36 air.
1—Horz. Duplex Air Compressor, simple, 12 × 14 × 13.
1—"Niles" Lathe, 58" swing, 28' bed.
1—Morgan Hoist, 35 tons capacity.
1—36" "Niles" Boring Mill.
1—"Bement Miles" Horiz. Boring Mill.
4—Vertical Punches, 40" throat.
2—Vertical Punches, 24" throat.
Boring Bars.
3—Fox Brass Finishing Lathes, Horz.
Punches, Combination Punch and Shear, "Durrell" Tapping Machine, Portable Drills, Hoisting Engines, Wilberham Blowers, 2—Vert. Engines, Air Tools and Hose, Jib Cranes, "Powers," "Daniels" and "Pony" Planers, Machinists' and Boiler Makers' Tools of every description, Foundry Tools, Track Scales, "Davidson," "Blake," "Deane" and "Snow" Pumps, also numerous other articles.

Same can be inspected at the works.

FRANK C. SOMERS, Chairman,
1336 Beach Street, Philadelphia, Pa
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